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FIG. 1

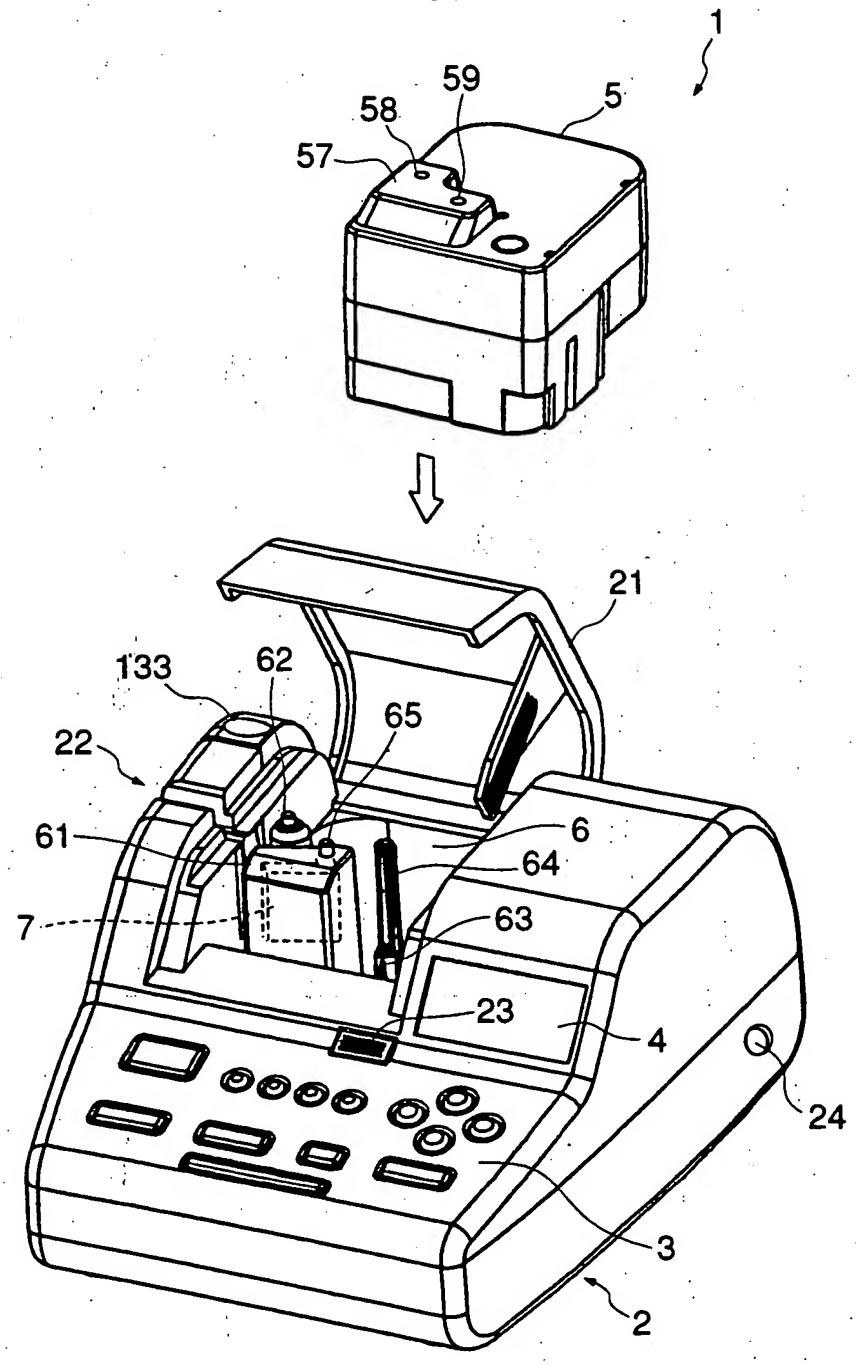


FIG. 2

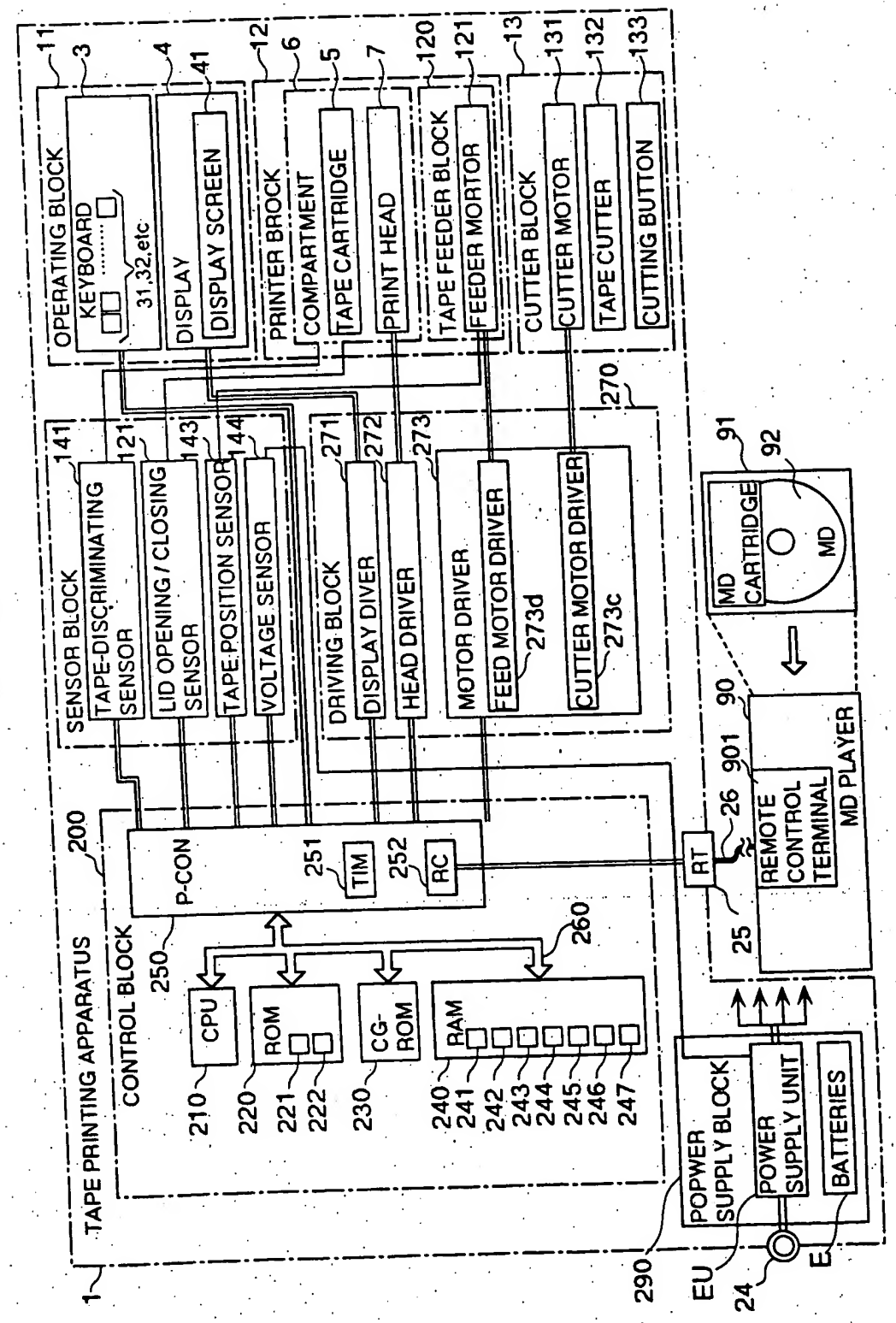
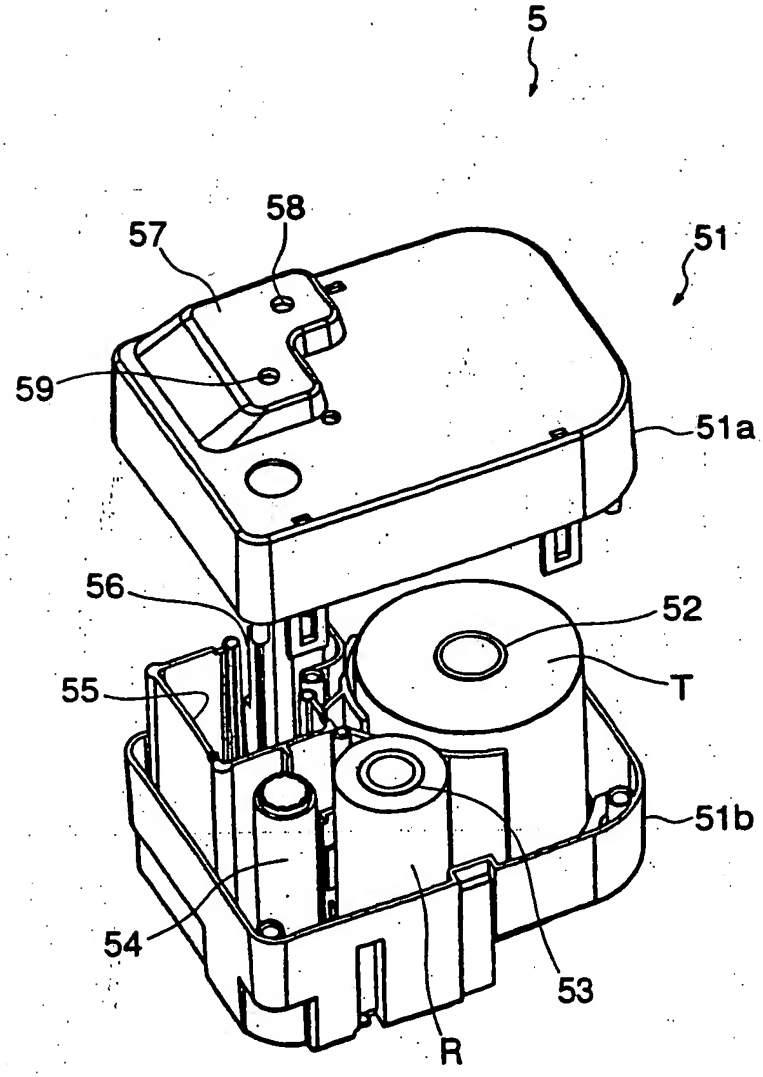

TAPE PRINTING APPARATUS
1
CONTROL BLOCK
200
P-CON
250
CPU
210
ROM
220
221
222
CG-ROM
230
RAM
240
241
242
243
244
245
246
247
260
TIM
251
RC
252
SENSOR BLOCK
141
TAPE-DISCRIMINATING SENSOR
121
LID OPENING / CLOSING SENSOR
143
TAPE POSITION SENSOR
144
VOLTAGE SENSOR
DRIVING BLOCK
271
DISPLAY DIVER
272
HEAD DRIVER
273
MOTOR DRIVER
FEED MOTOR DRIVER
273d
CUTTER MOTOR DRIVER
273c
270
OPERATING BLOCK
11
KEYBOARD
3
31,32,etc
DISPLAY
4
DISPLAY SCREEN
41
PRINTER BROCK
12
COMPARTMENT
6
TAPE CARTRIDGE
5
PRINT HEAD
7
TAPE FEEDER BLOCK
120
FEEDER MORTOR
121
CUTTER BLOCK
13
CUTTER MOTOR
131
TAPE CUTTER
132
CUTTING BUTTON
133
MD CARTRIDGE
91
MD
92
MD PLAYER
90
REMOTE CONTROL TERMINAL
901
RT
26
25
POPWER SUPPLY BLOCK
290
POWER SUPPLY UNIT
EU
BATTERIES
E
24

FIG. 3



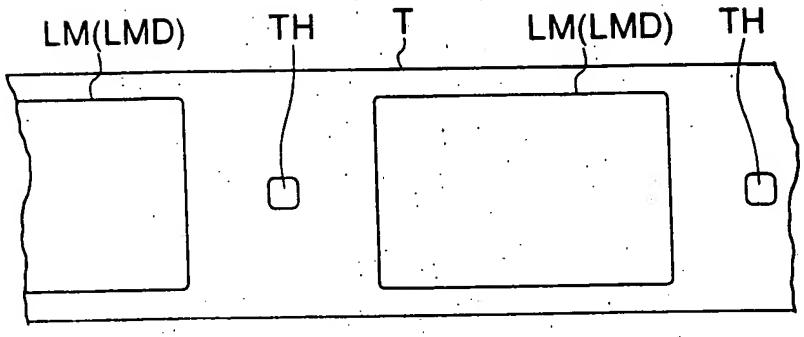


FIG. 4A

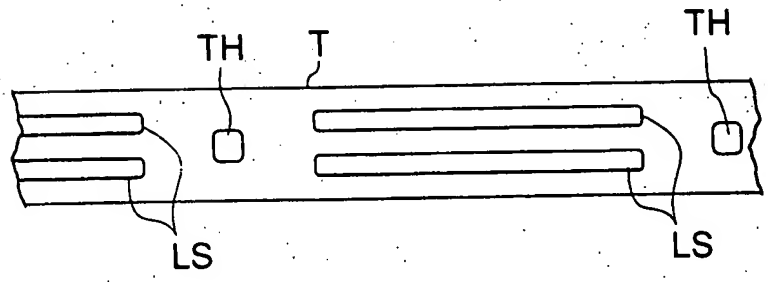


FIG. 4B

FIG. 5A

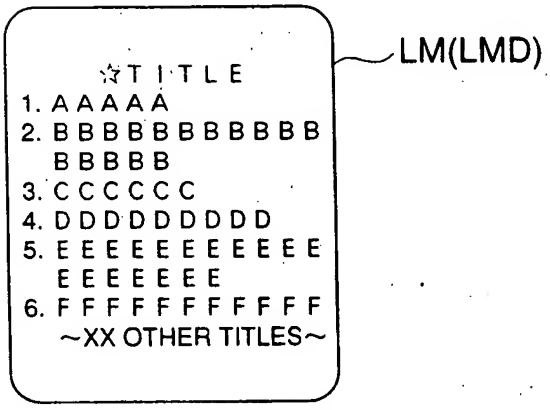


FIG. 5B

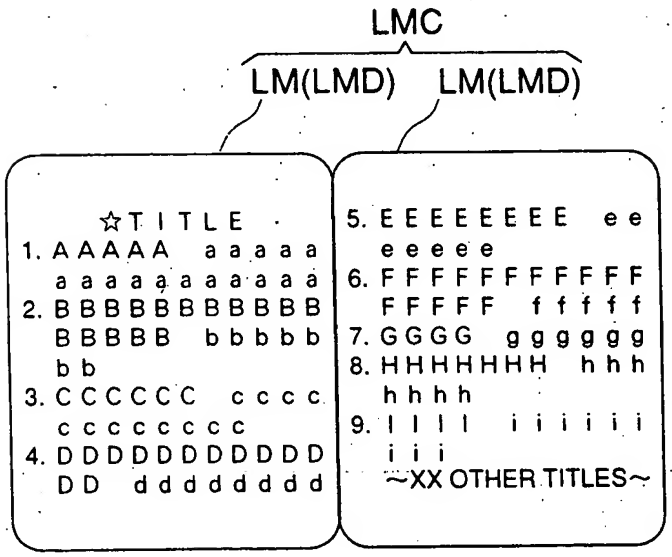


FIG. 5C

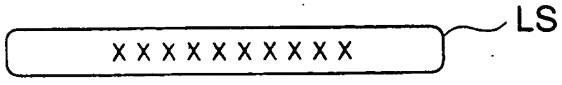


FIG. 6

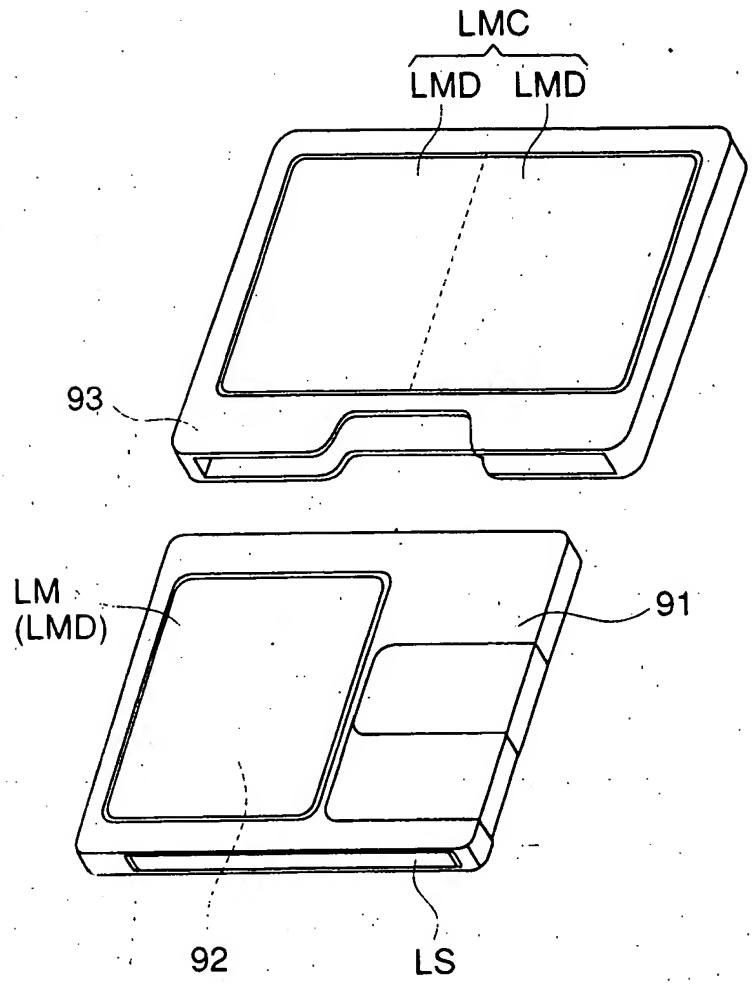


FIG. 7

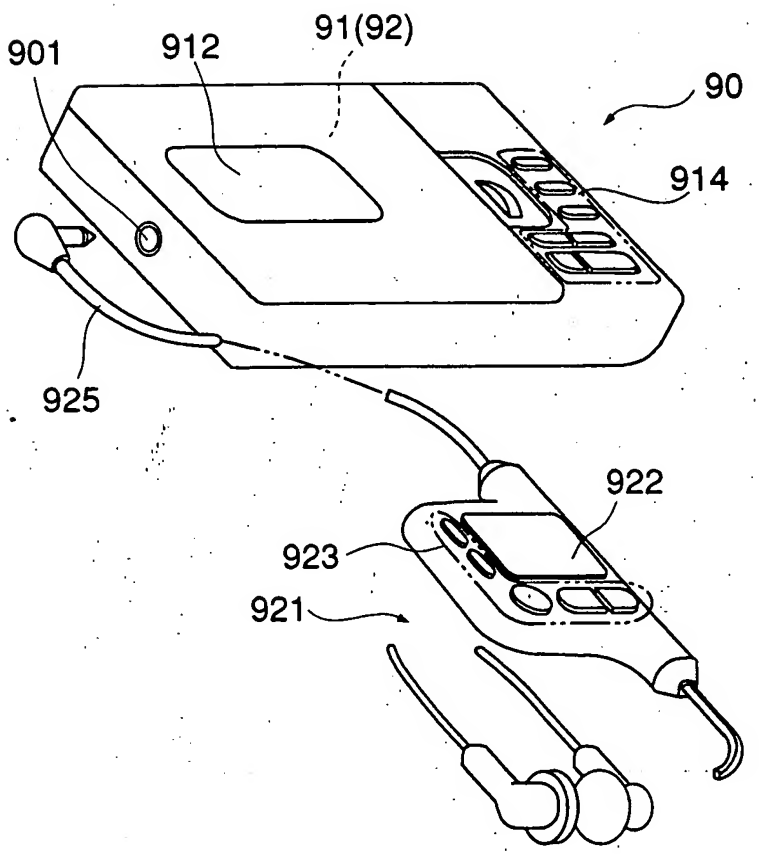


FIG. 8

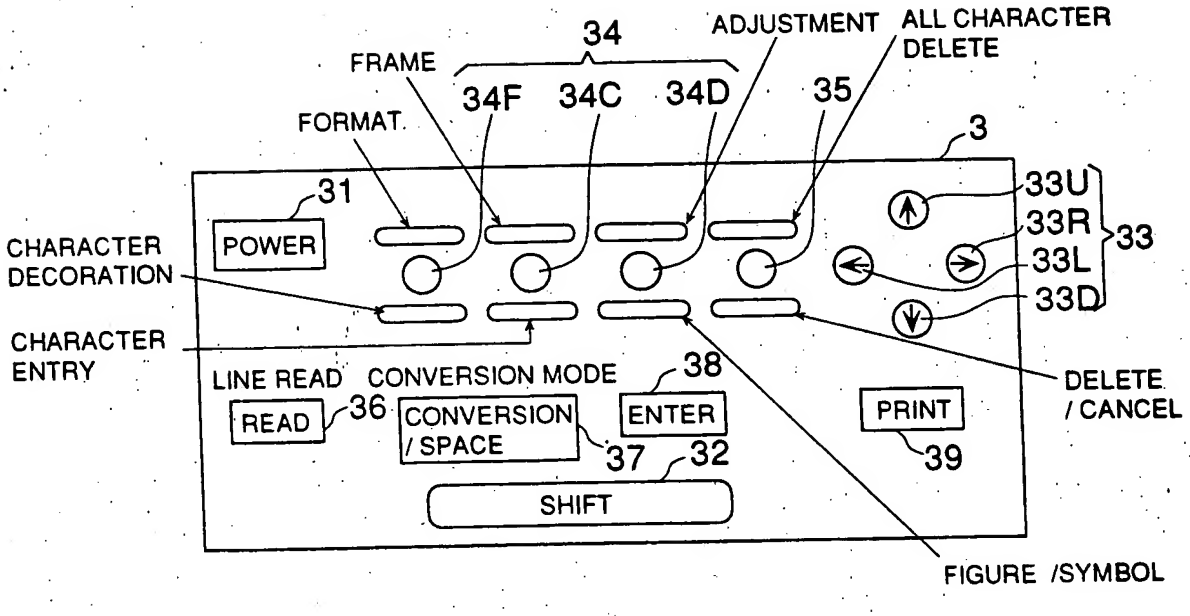

34
ADJUSTMENT
ALL CHARACTER DELETE
FRAME
34F
34C
34D
35
FORMAT
3
31
33U
33R
33L
33D
33
POWER
CHARACTER DECORATION
CHARACTER ENTRY
LINE READ
CONVERSION MODE
38
READ
36
CONVERSION / SPACE
ENTER
37
32
PRINT
39
DELETE / CANCEL
SHIFT
FIGURE /SYMBOL

FIG. 9

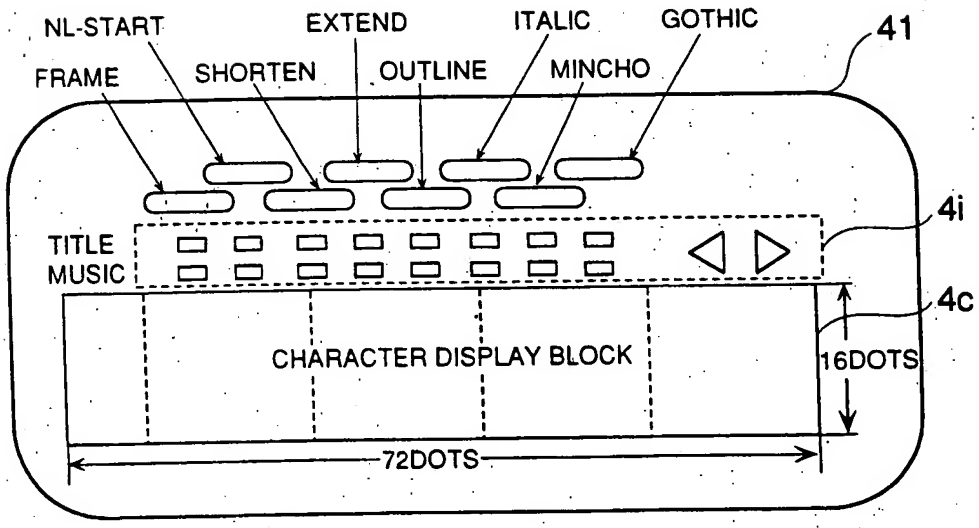

NL-START
EXTEND
ITALIC
GOTHIC
41
FRAME
SHORTEN
OUTLINE
MINCHO
4i
TITLE
MUSIC
4c
CHARACTER DISPLAY BLOCK
16DOTS
72DOTS

FIG. 10

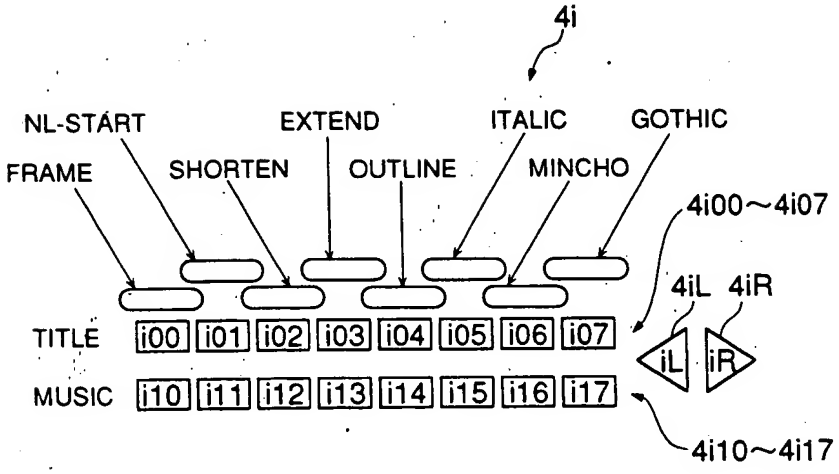

4i
NL-START
FRAME
SHORTEN
EXTEND
OUTLINE
ITALIC
MINCHO
GOTHIC
4i00~4i07
4iL
4iR
TITLE
i00
i01
i02
i03
i04
i05
i06
i07
iL
iR
MUSIC
i10
i11
i12
i13
i14
i15
i16
i17
4i10~4i17

FIG. 11A

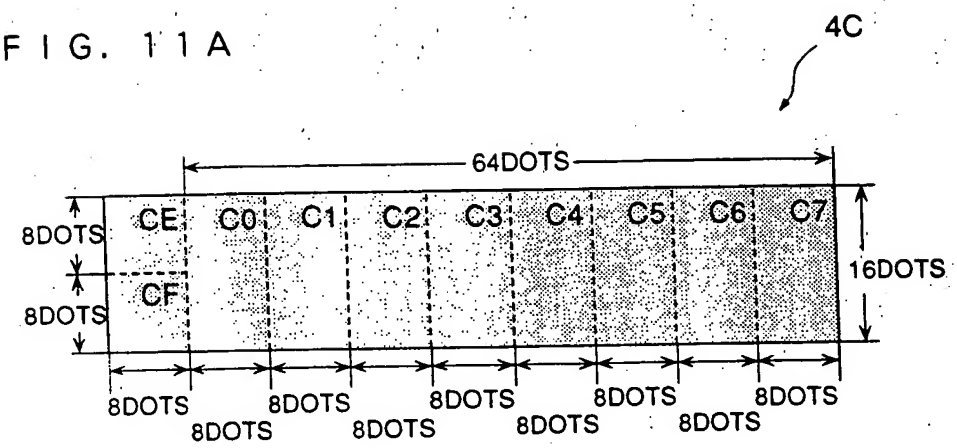


FIG. 11B

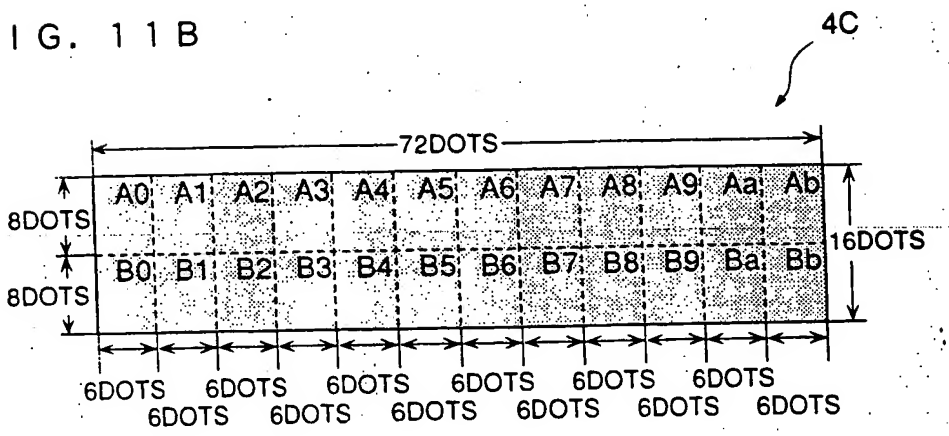


FIG. 12A

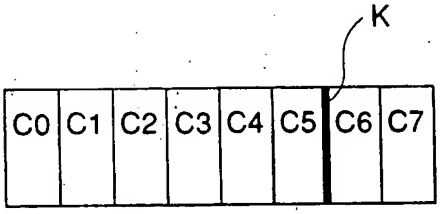


FIG. 12B

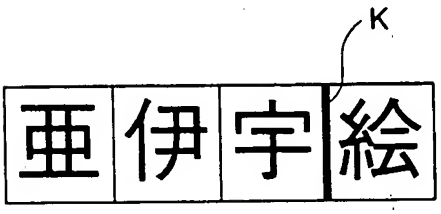


FIG. 12C

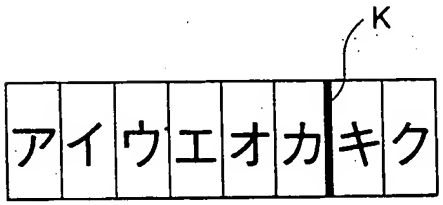


FIG. 12D

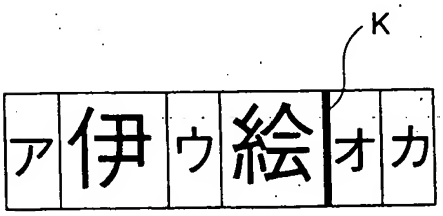


FIG. 12E

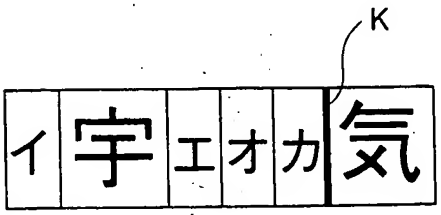


FIG. 13

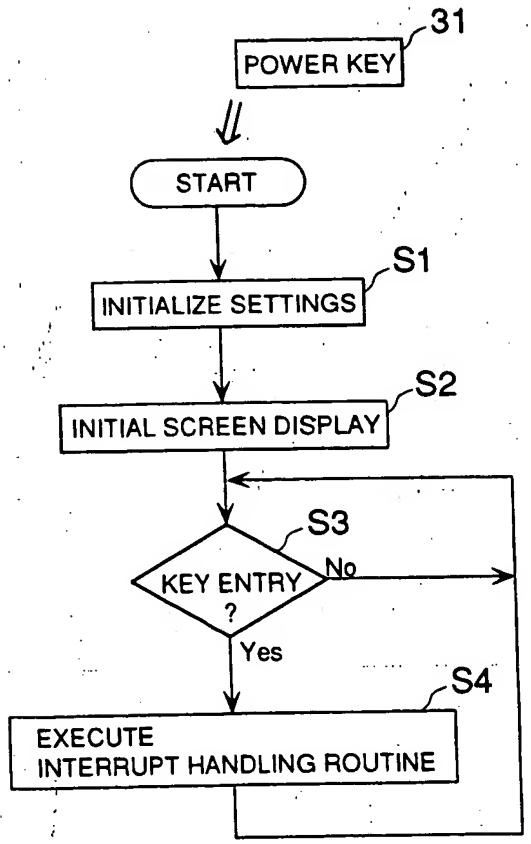

31
POWER KEY
START
S1
INITIALIZE SETTINGS
S2
INITIAL SCREEN DISPLAY
S3
KEY ENTRY ?
No
Yes
S4
EXECUTE INTERRUPT HANDLING ROUTINE

FIG. 14

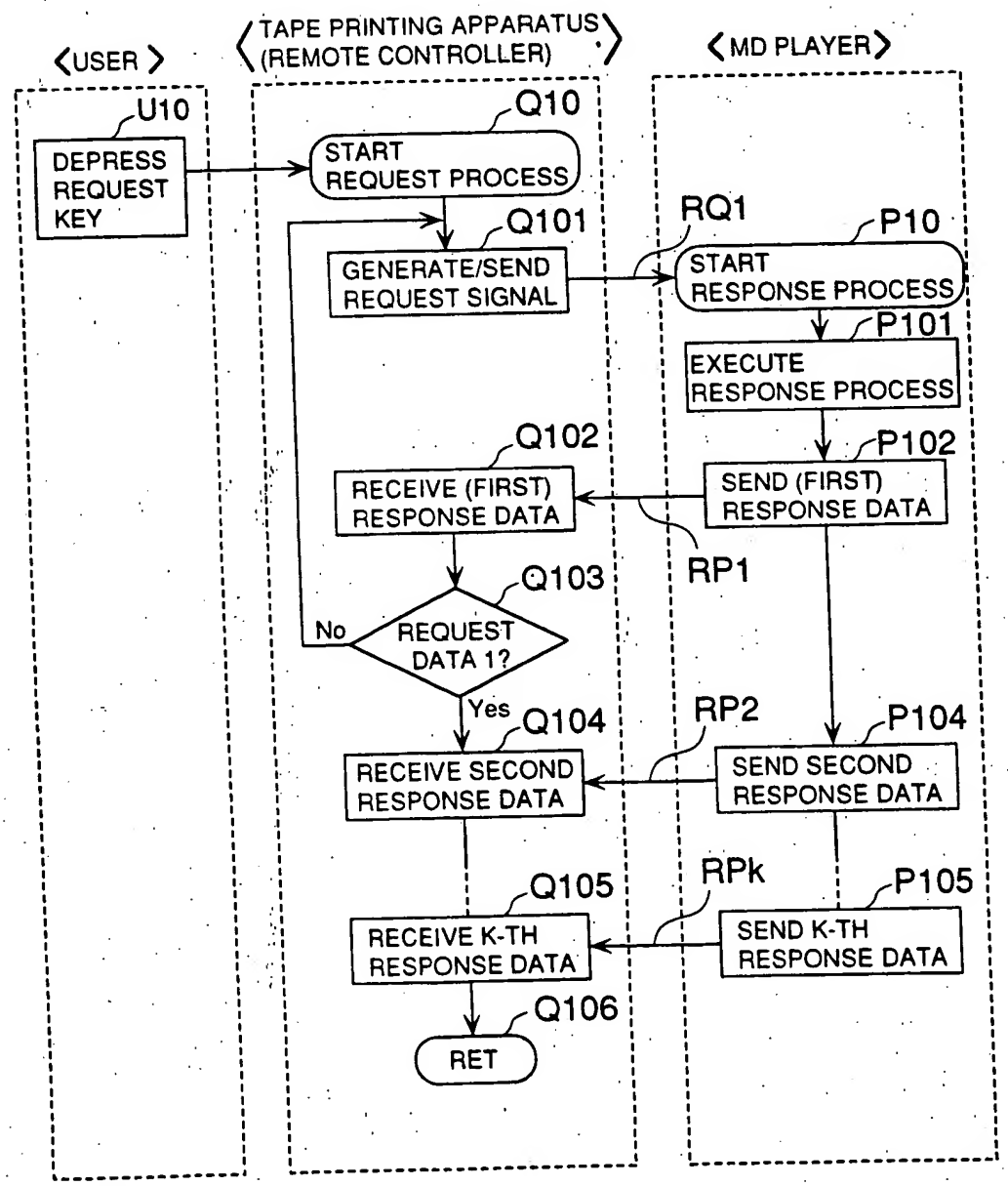

〈USER〉
〈TAPE PRINTING APPARATUS (REMOTE CONTROLLER)〉
〈MD PLAYER〉
U10
DEPRESS REQUEST KEY
Q10
START REQUEST PROCESS
Q101
GENERATE/SEND REQUEST SIGNAL
RQ1
P10
START RESPONSE PROCESS
P101
EXECUTE RESPONSE PROCESS
Q102
RECEIVE (FIRST) RESPONSE DATA
P102
SEND (FIRST) RESPONSE DATA
RP1
Q103
No
REQUEST DATA 1?
Yes
Q104
RECEIVE SECOND RESPONSE DATA
RP2
P104
SEND SECOND RESPONSE DATA
Q105
RECEIVE K-TH RESPONSE DATA
RPk
P105
SEND K-TH RESPONSE DATA
Q106
RET

FIG. 15

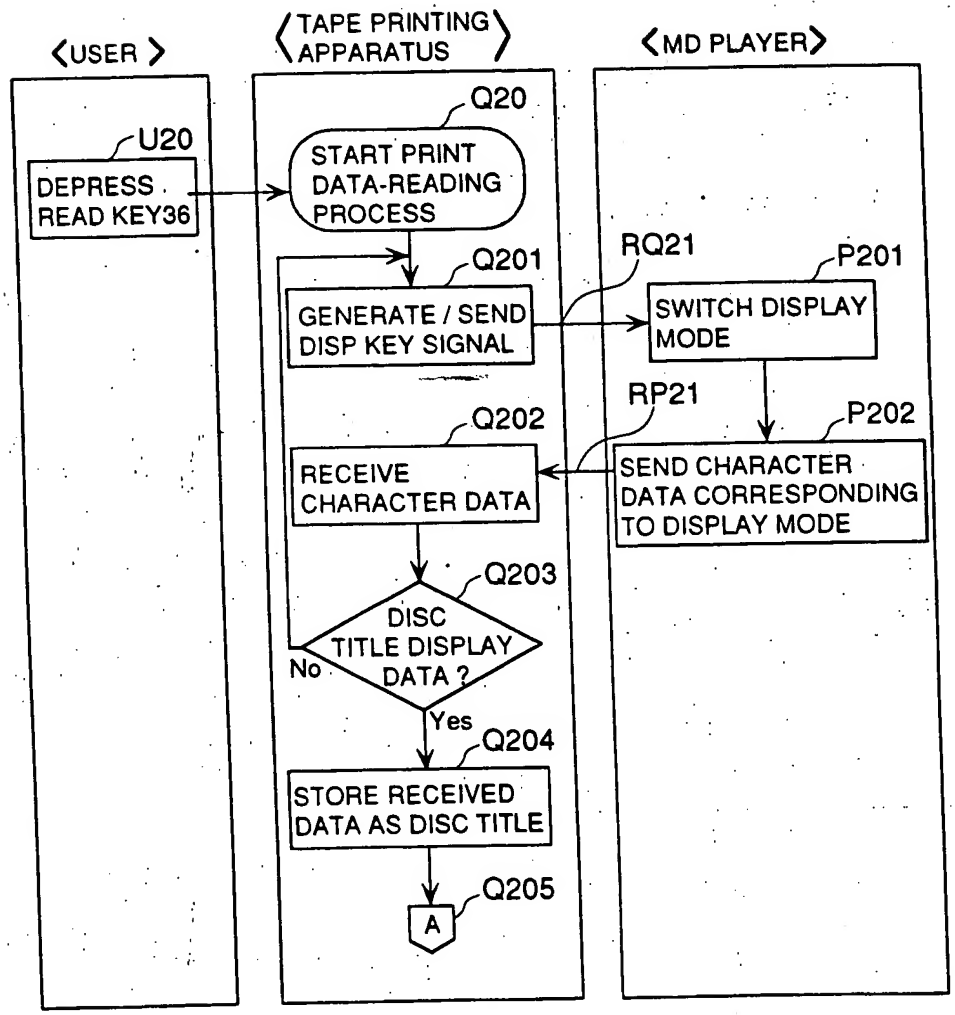

<USER>
<TAPE PRINTING APPARATUS>
<MD PLAYER>
U20
DEPRESS READ KEY36
Q20
START PRINT DATA-READING PROCESS
Q201
GENERATE / SEND DISP KEY SIGNAL
RQ21
P201
SWITCH DISPLAY MODE
RP21
P202
SEND CHARACTER DATA CORRESPONDING TO DISPLAY MODE
Q202
RECEIVE CHARACTER DATA
Q203
DISC TITLE DISPLAY DATA ?
No
Yes
Q204
STORE RECEIVED DATA AS DISC TITLE
Q205
A

FIG. 16

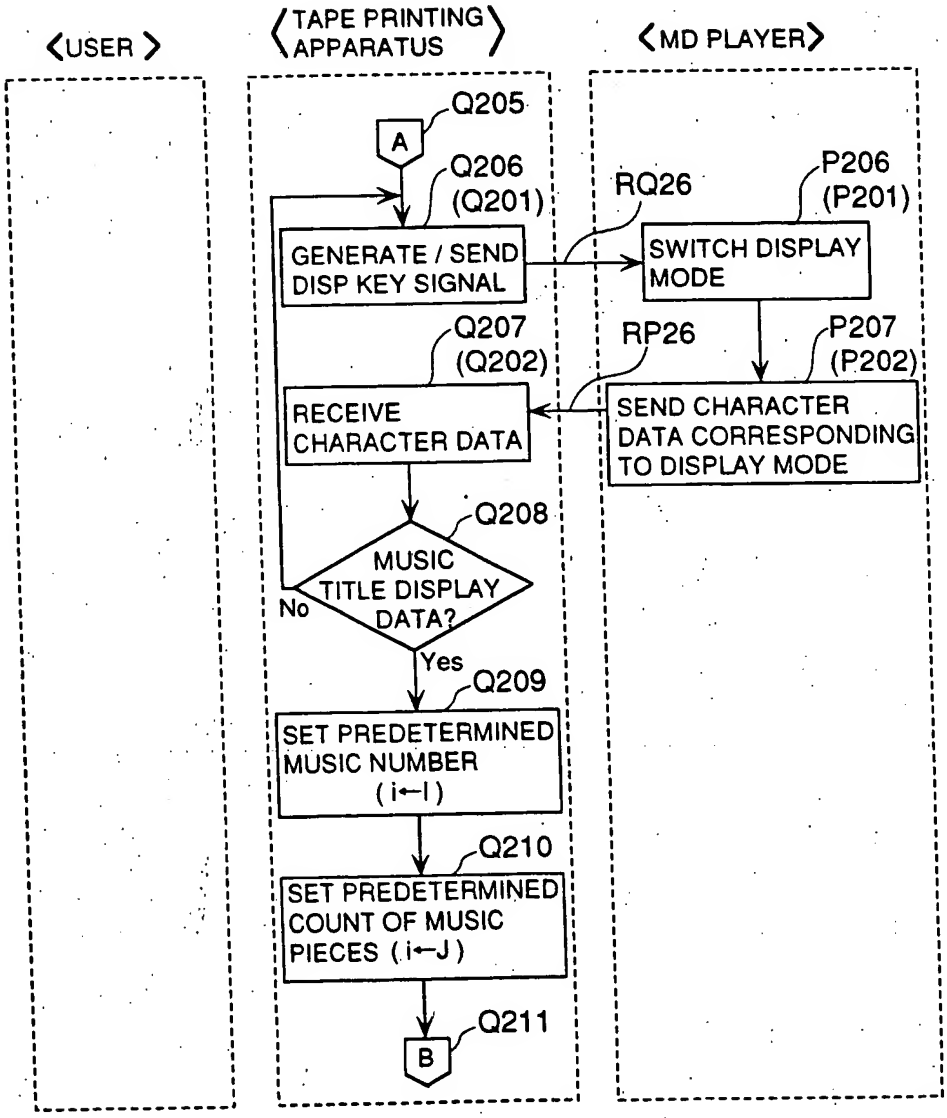

<USER>
<TAPE PRINTING APPARATUS>
<MD PLAYER>
Q205
A
Q206
(Q201)
GENERATE / SEND DISP KEY SIGNAL
RQ26
P206
(P201)
SWITCH DISPLAY MODE
Q207
(Q202)
RECEIVE CHARACTER DATA
RP26
P207
(P202)
SEND CHARACTER DATA CORRESPONDING TO DISPLAY MODE
Q208
MUSIC TITLE DISPLAY DATA?
No
Yes
Q209
SET PREDETERMINED MUSIC NUMBER (i←1)
Q210
SET PREDETERMINED COUNT OF MUSIC PIECES (i←J)
Q211
B

FIG. 17

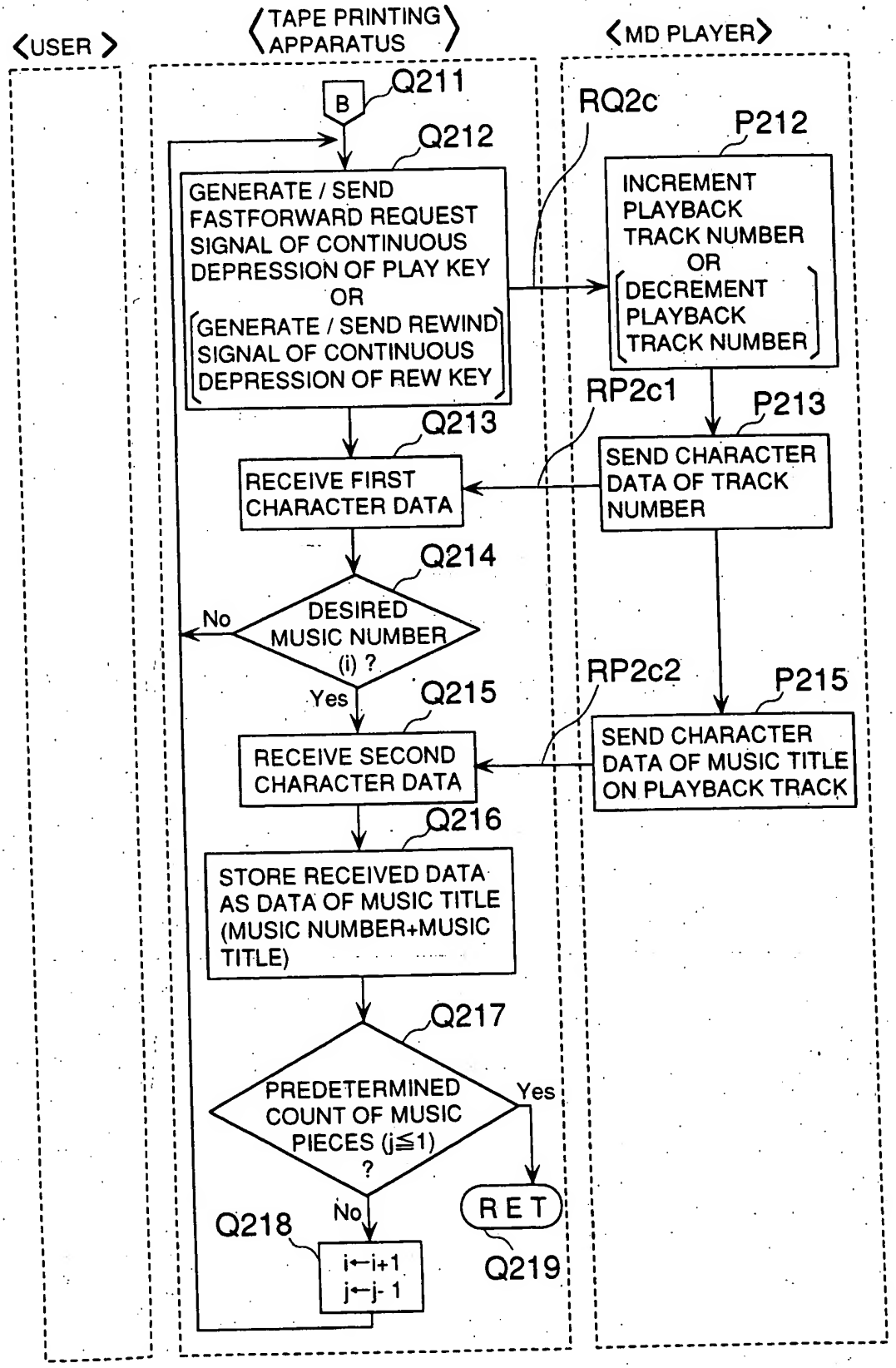

<USER>
<TAPE PRINTING APPARATUS>
<MD PLAYER>
B
Q211
Q212
GENERATE / SEND FASTFORWARD REQUEST SIGNAL OF CONTINUOUS DEPRESSION OF PLAY KEY OR GENERATE / SEND REWIND SIGNAL OF CONTINUOUS DEPRESSION OF REW KEY
RQ2c
P212
INCREMENT PLAYBACK TRACK NUMBER OR DECREMENT PLAYBACK TRACK NUMBER
RP2c1
P213
Q213
RECEIVE FIRST CHARACTER DATA
SEND CHARACTER DATA OF TRACK NUMBER
Q214
No
DESIRED MUSIC NUMBER (i) ?
Yes
RP2c2
P215
Q215
RECEIVE SECOND CHARACTER DATA
SEND CHARACTER DATA OF MUSIC TITLE ON PLAYBACK TRACK
Q216
STORE RECEIVED DATA AS DATA OF MUSIC TITLE (MUSIC NUMBER+MUSIC TITLE)
Q217
PREDETERMINED COUNT OF MUSIC PIECES (j≦1) ?
Yes
No
RET
Q219
Q218
i←i+1
j←j-1

FIG. 18

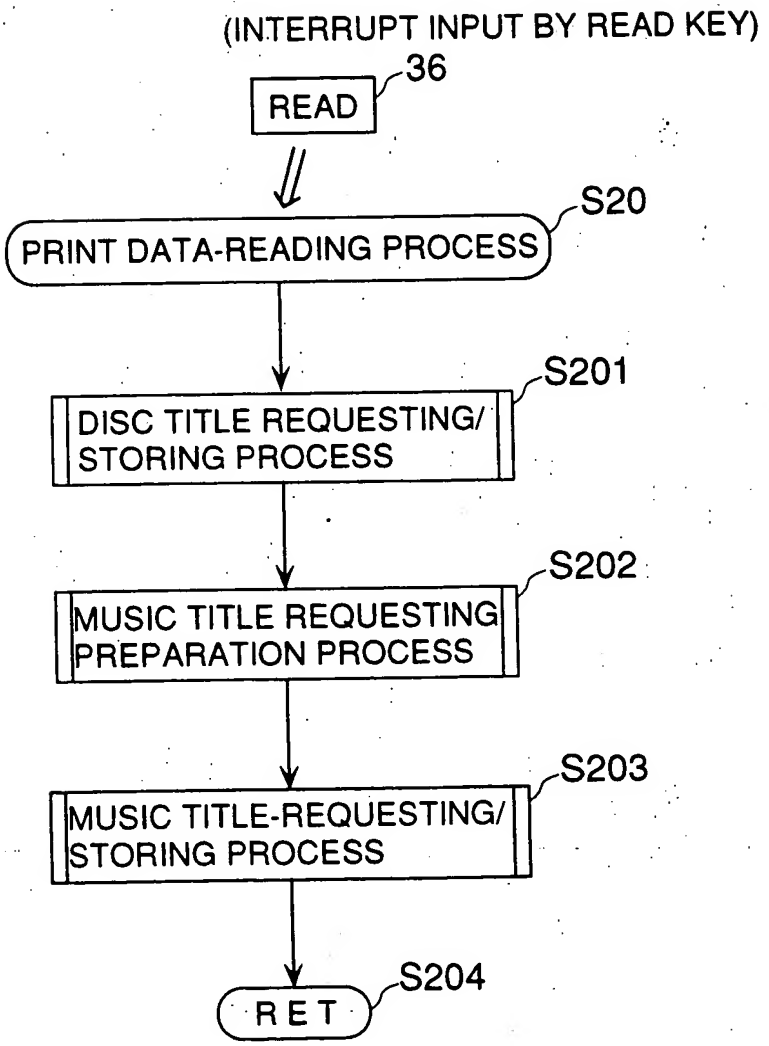

(INTERRUPT INPUT BY READ KEY)
READ
36
PRINT DATA-READING PROCESS
S20
DISC TITLE REQUESTING/ STORING PROCESS
S201
MUSIC TITLE REQUESTING PREPARATION PROCESS
S202
MUSIC TITLE-REQUESTING/ STORING PROCESS
S203
RET
S204

FIG. 19

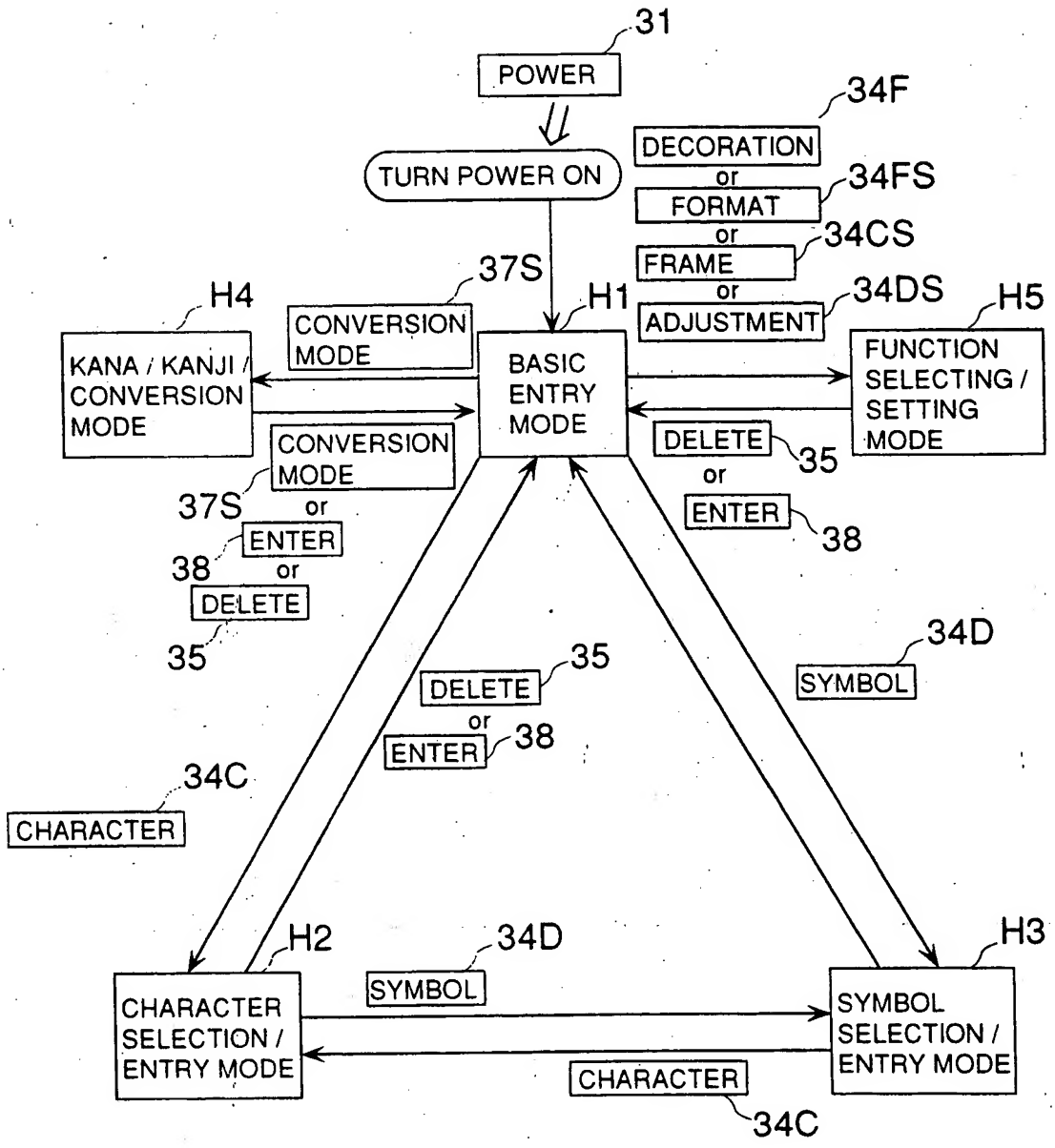

31
POWER
TURN POWER ON
34F
DECORATION
or
34FS
FORMAT
or
34CS
FRAME
or
34DS
ADJUSTMENT
37S
CONVERSION MODE
H4
KANA / KANJI / CONVERSION MODE
H1
BASIC ENTRY MODE
H5
FUNCTION SELECTING / SETTING MODE
CONVERSION MODE
37S
or
ENTER
38
or
DELETE
35
DELETE
35
or
ENTER
38
34D
SYMBOL
DELETE
35
or
ENTER
38
34C
CHARACTER
H2
CHARACTER SELECTION / ENTRY MODE
34D
SYMBOL
H3
SYMBOL SELECTION / ENTRY MODE
CHARACTER
34C

FIG. 20A

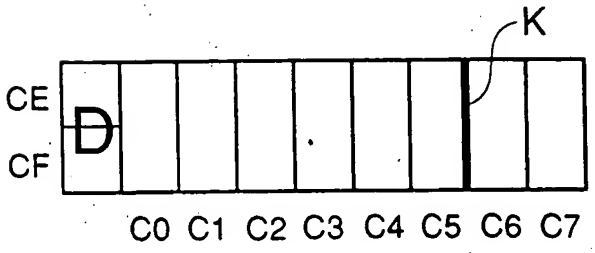


FIG. 20B

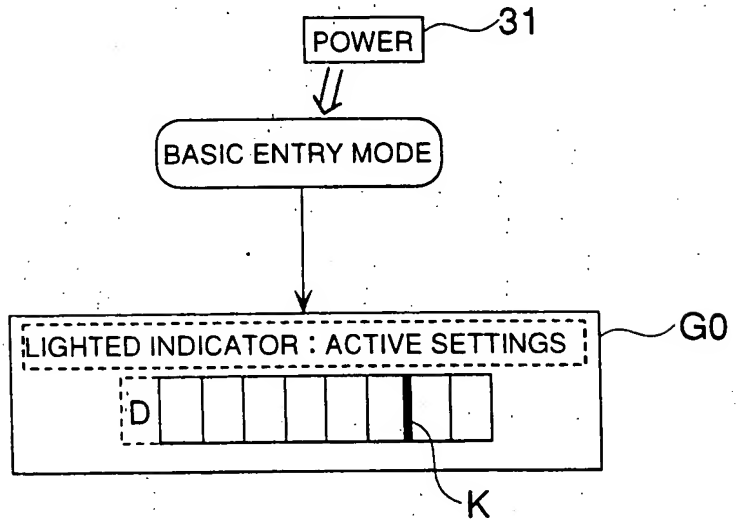


FIG. 20C

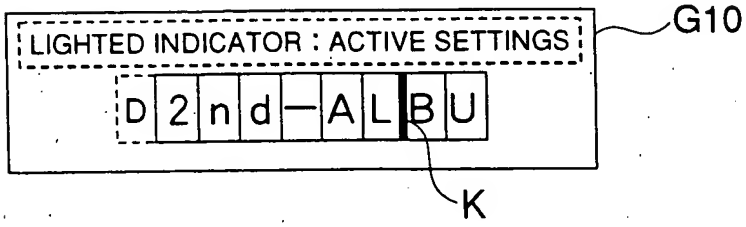


FIG. 21

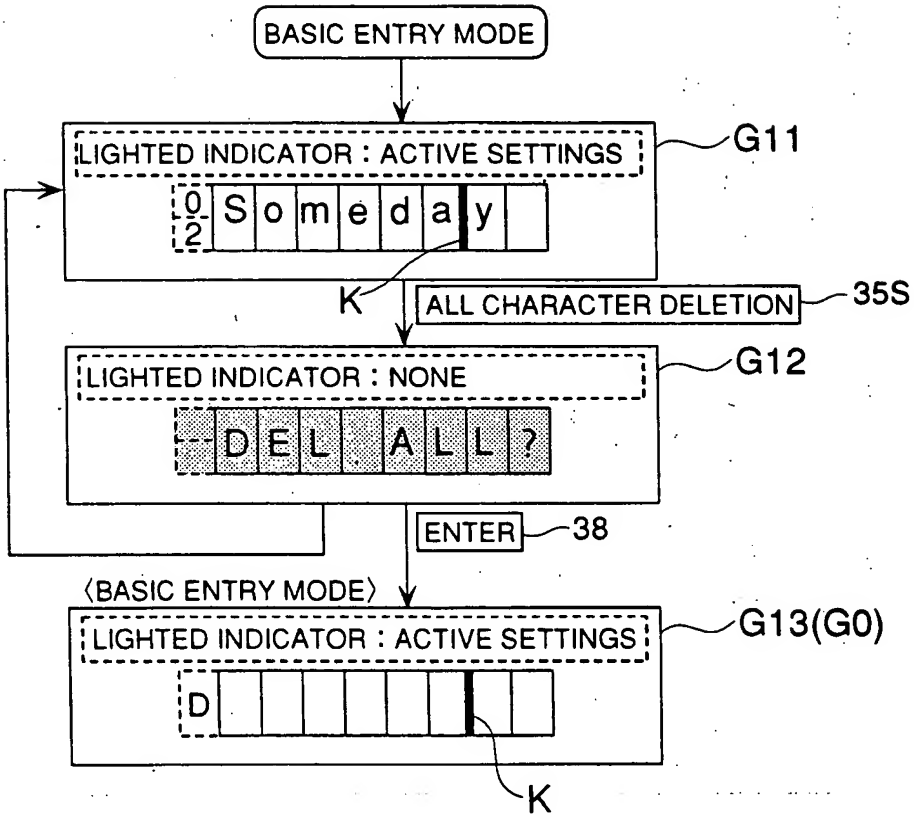

BASIC ENTRY MODE
LIGHTED INDICATOR : ACTIVE SETTINGS
G11
02
Someday
K
ALL CHARACTER DELETION
35S
LIGHTED INDICATOR : NONE
G12
DELALL?
ENTER
38
〈BASIC ENTRY MODE〉
LIGHTED INDICATOR : ACTIVE SETTINGS
G13(G0)
D
K

FIG. 22

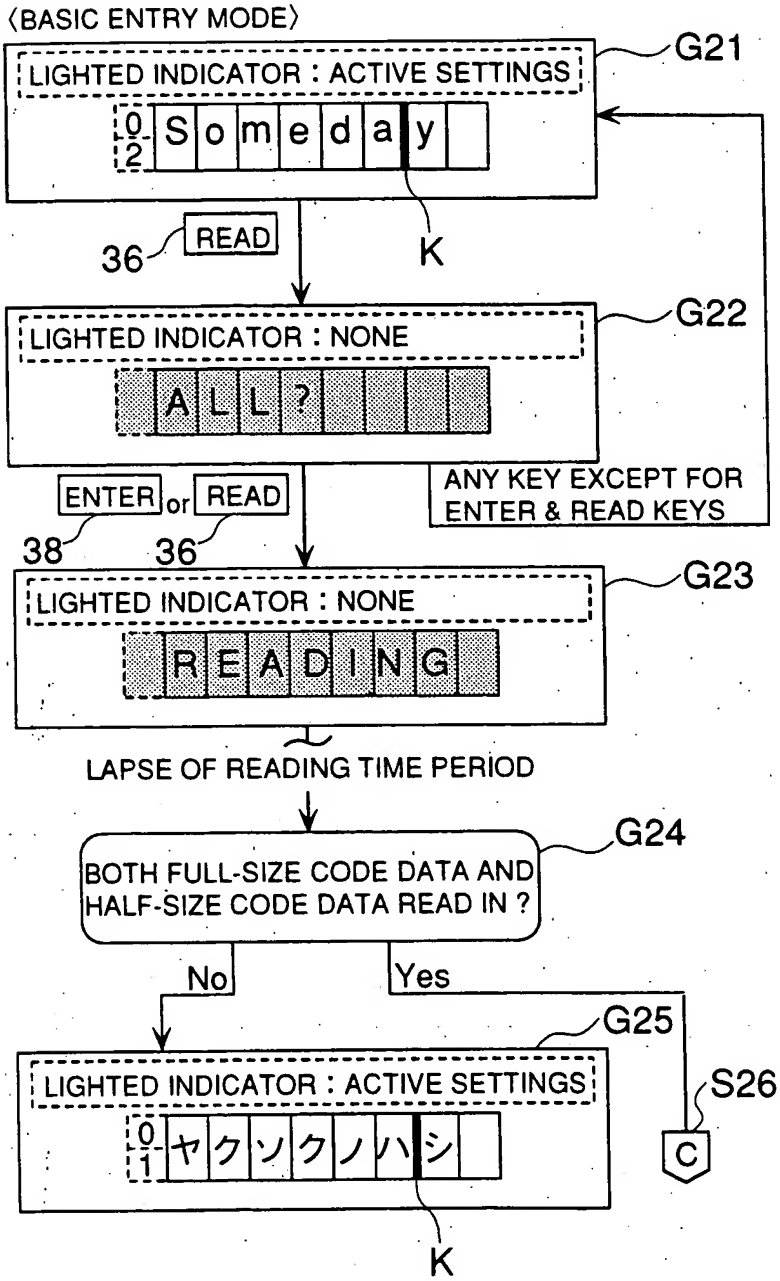

〈BASIC ENTRY MODE〉
G21
LIGHTED INDICATOR : ACTIVE SETTINGS
02
Someday
K
36
READ
G22
LIGHTED INDICATOR : NONE
ALL?
ENTER or READ
38
36
ANY KEY EXCEPT FOR ENTER & READ KEYS
G23
LIGHTED INDICATOR : NONE
READING
LAPSE OF READING TIME PERIOD
G24
BOTH FULL-SIZE CODE DATA AND HALF-SIZE CODE DATA READ IN ?
No
Yes
G25
LIGHTED INDICATOR : ACTIVE SETTINGS
01
ヤクソクノハシ
K
S26
C

FIG. 23

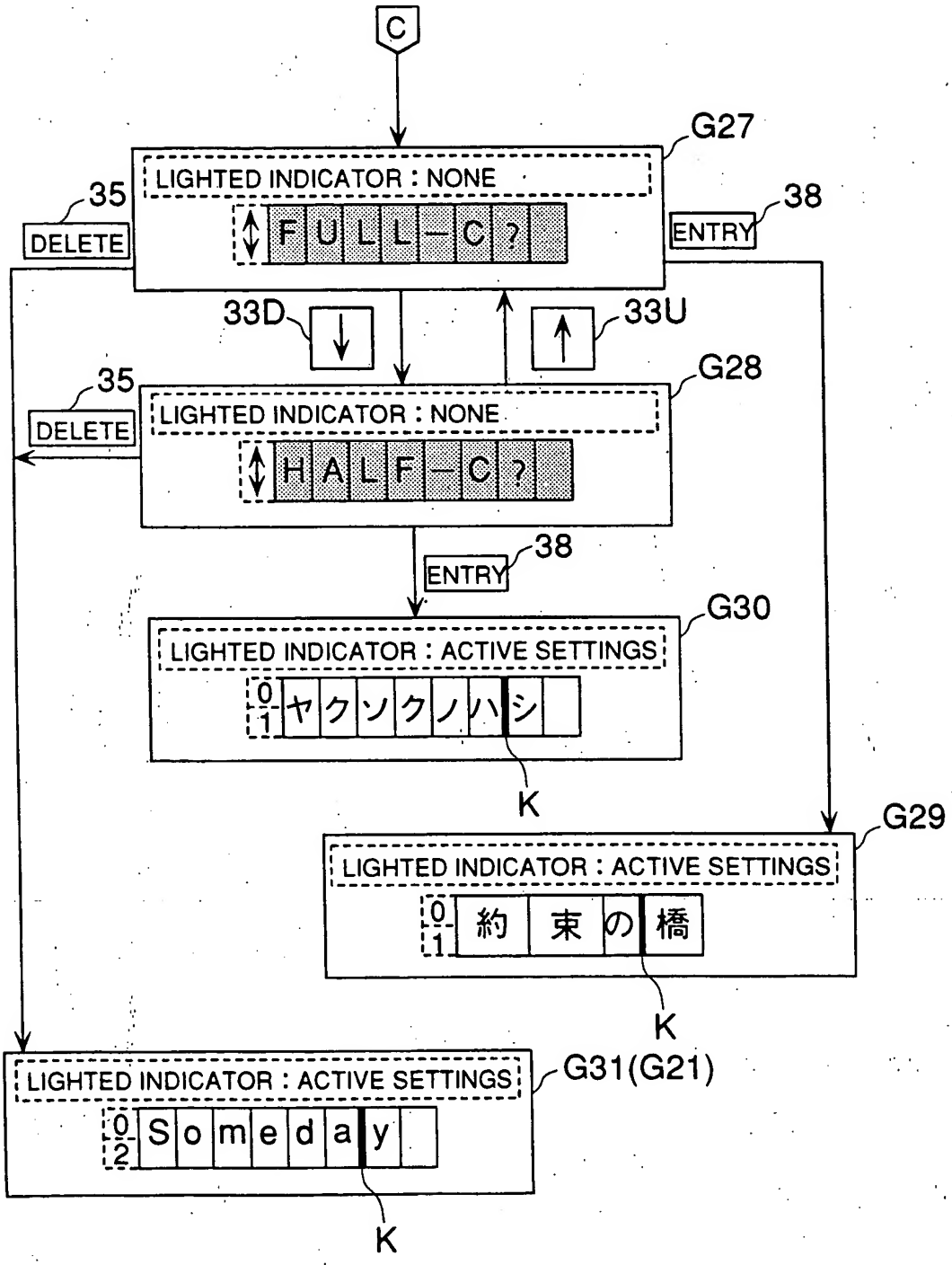

C
G27
LIGHTED INDICATOR : NONE
F U L L — C ?
35
DELETE
38
ENTRY
33D
33U
G28
LIGHTED INDICATOR : NONE
H A L F — C ?
35
DELETE
38
ENTRY
G30
LIGHTED INDICATOR : ACTIVE SETTINGS
0
1
ヤ ク ソ ク ノ ハ シ
K
G29
LIGHTED INDICATOR : ACTIVE SETTINGS
0
1
約 束 の 橋
K
G31(G21)
LIGHTED INDICATOR : ACTIVE SETTINGS
0
2
S o m e d a y
K

FIG. 24

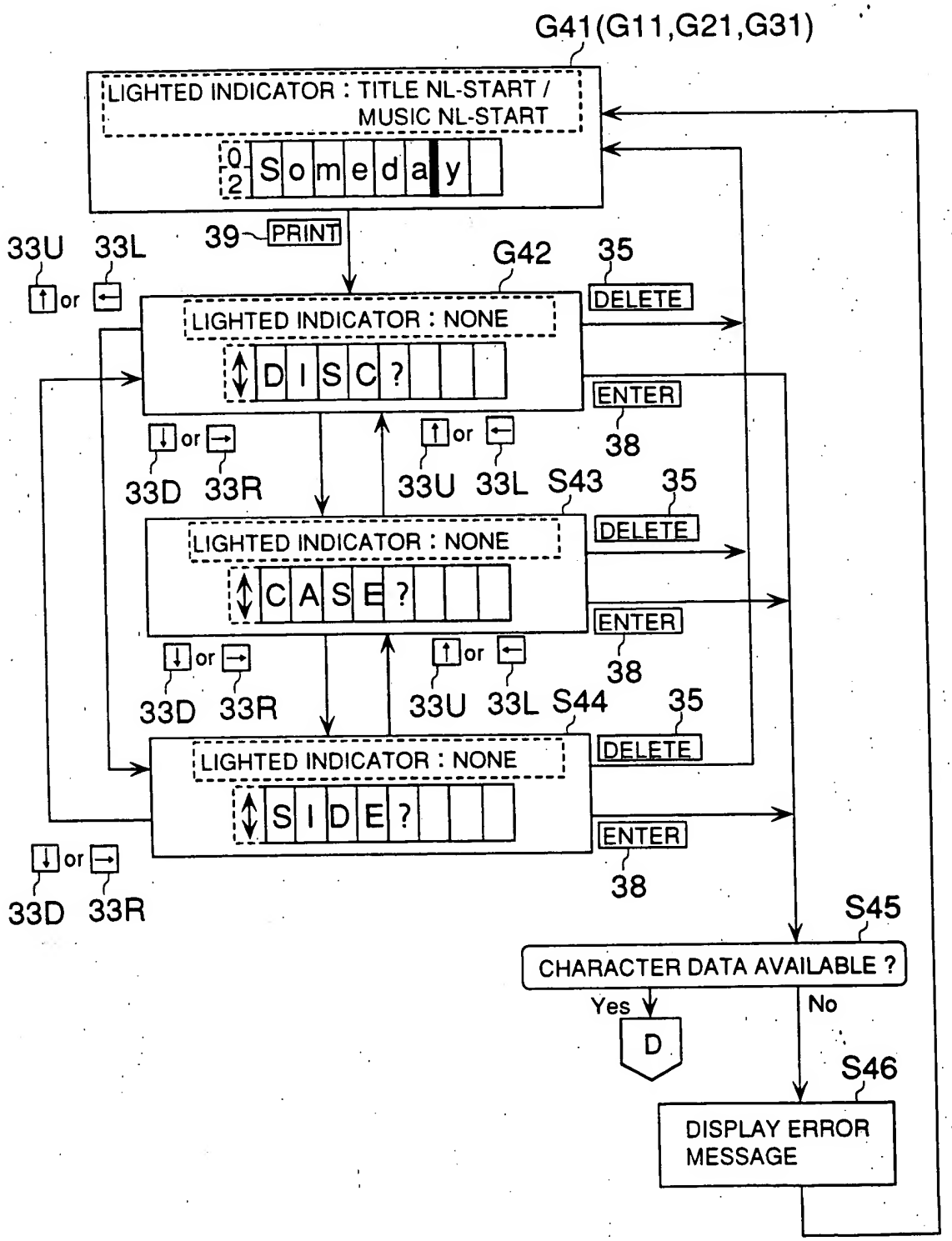

G41(G11,G21,G31)
LIGHTED INDICATOR : TITLE NL-START / MUSIC NL-START
02 Someday
39 PRINT
33U 33L or
G42
35
DELETE
LIGHTED INDICATOR : NONE
DISC?
ENTER
38
33D 33R or
33U 33L or
S43
LIGHTED INDICATOR : NONE
CASE?
S44
LIGHTED INDICATOR : NONE
SIDE?
S45
CHARACTER DATA AVAILABLE ?
Yes
No
D
S46
DISPLAY ERROR MESSAGE

FIG. 25

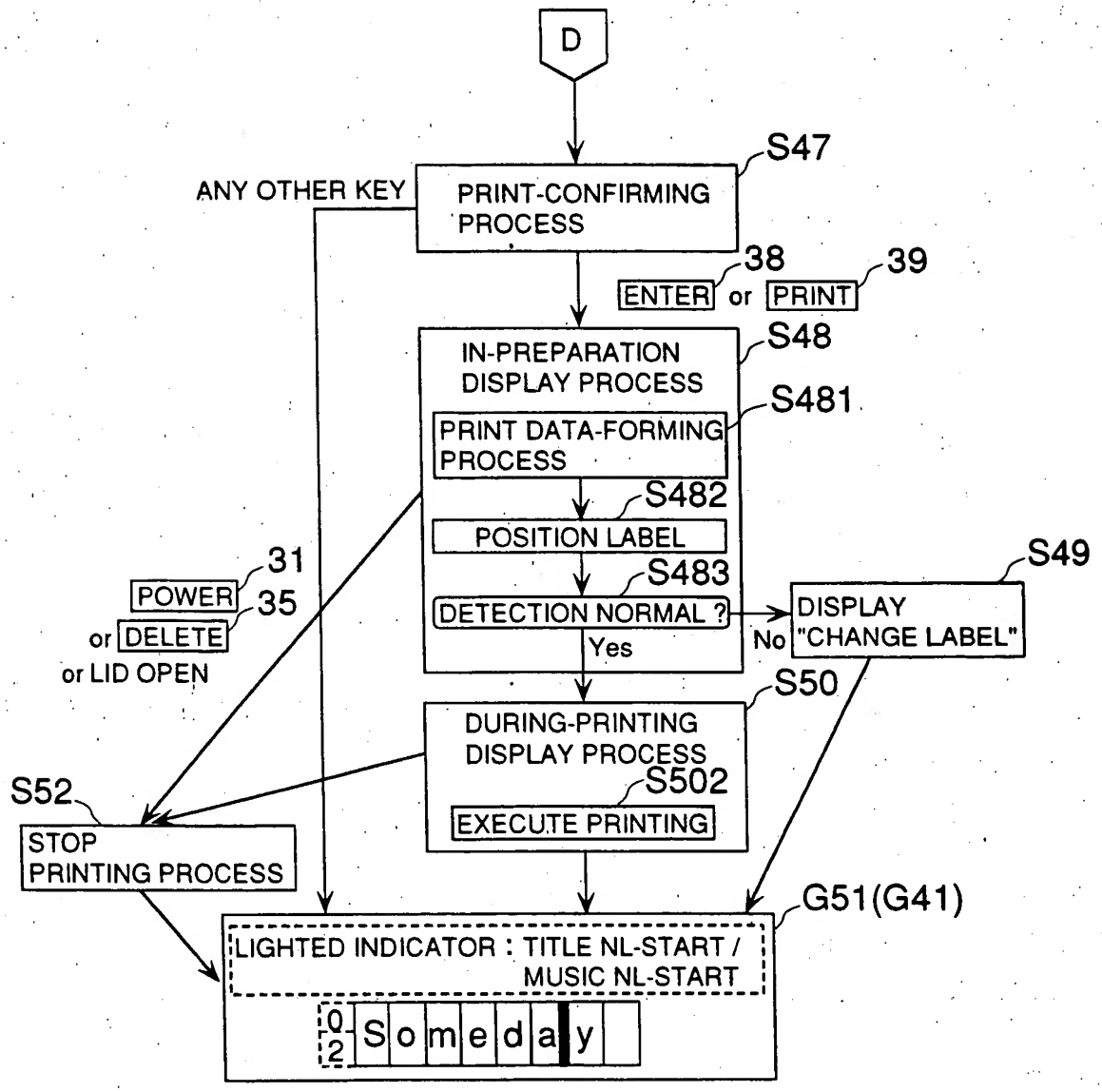
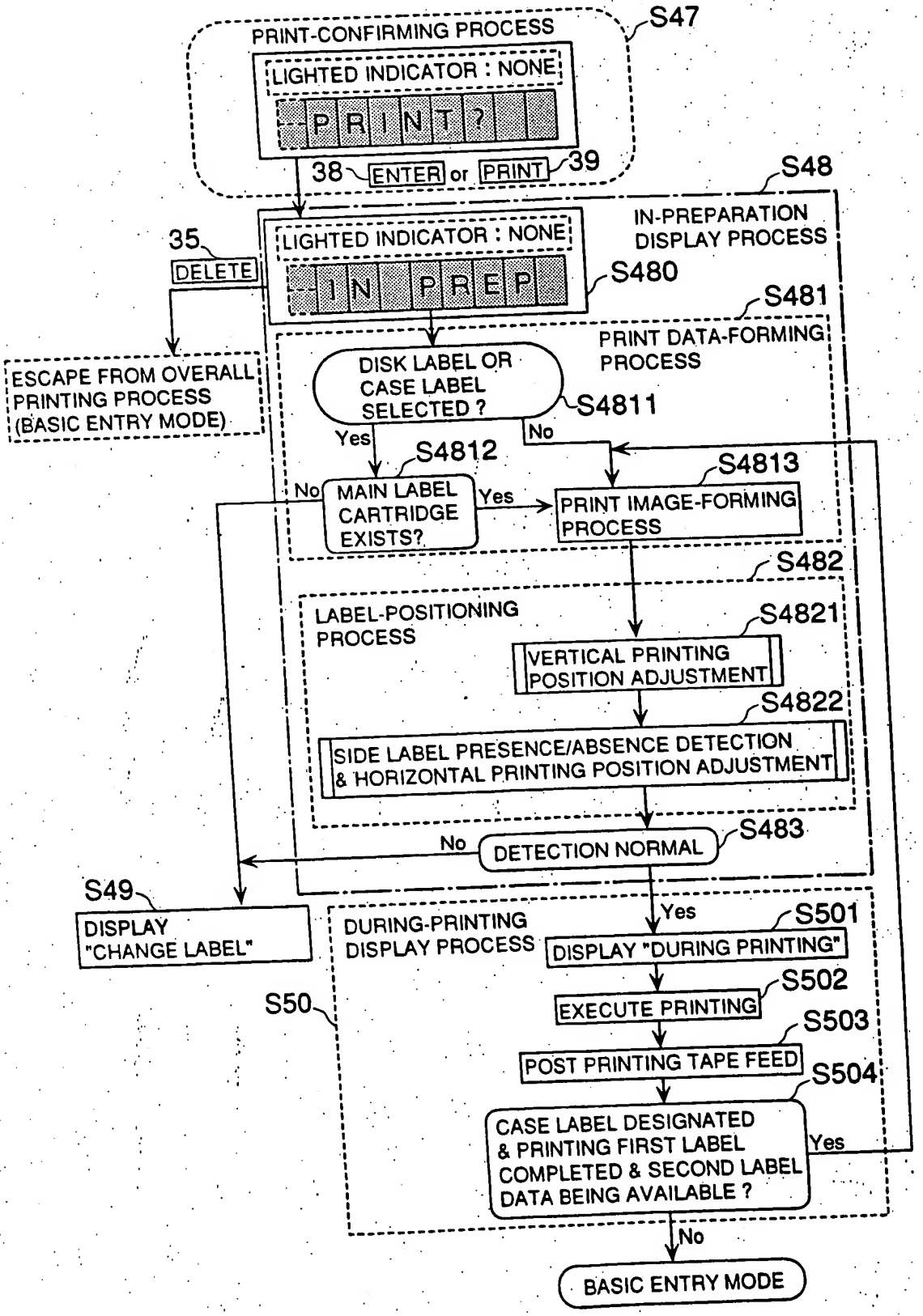

D
S47
ANY OTHER KEY
PRINT-CONFIRMING PROCESS
38
ENTER
or
PRINT
39
S48
IN-PREPARATION DISPLAY PROCESS
S481
PRINT DATA-FORMING PROCESS
S482
POSITION LABEL
S483
DETECTION NORMAL ?
Yes
No
S49
DISPLAY "CHANGE LABEL"
31
POWER
35
or DELETE
or LID OPEN
S50
DURING-PRINTING DISPLAY PROCESS
S502
EXECUTE PRINTING
S52
STOP PRINTING PROCESS
G51(G41)
LIGHTED INDICATOR : TITLE NL-START / MUSIC NL-START
02
Someday

FIG. 26


PRINT-CONFIRMING PROCESS
S47
LIGHTED INDICATOR : NONE
PRINT?
38
ENTER or PRINT
39
S48
IN-PREPARATION DISPLAY PROCESS
35
DELETE
LIGHTED INDICATOR : NONE
IN PREP
S480
S481
PRINT DATA-FORMING PROCESS
ESCAPE FROM OVERALL PRINTING PROCESS (BASIC ENTRY MODE)
DISK LABEL OR CASE LABEL SELECTED ?
S4811
Yes
No
S4812
S4813
No
MAIN LABEL CARTRIDGE EXISTS?
Yes
PRINT IMAGE-FORMING PROCESS
S482
LABEL-POSITIONING PROCESS
S4821
VERTICAL PRINTING POSITION ADJUSTMENT
S4822
SIDE LABEL PRESENCE/ABSENCE DETECTION & HORIZONTAL PRINTING POSITION ADJUSTMENT
No
DETECTION NORMAL
S483
S49
DISPLAY "CHANGE LABEL"
Yes
DURING-PRINTING DISPLAY PROCESS
S501
DISPLAY "DURING PRINTING"
S50
S502
EXECUTE PRINTING
S503
POST PRINTING TAPE FEED
S504
CASE LABEL DESIGNATED & PRINTING FIRST LABEL COMPLETED & SECOND LABEL DATA BEING AVAILABLE ?
Yes
No
BASIC ENTRY MODE

LINE NUMBER	MUSIC NUMBER (INFORMATION NUMBER) TITLE
1	☆T I T L E
2	1. A 1 B 1 C 1 D 1 E 1 F
3	1 G 1
4	2. A 2 B 2 C 2
5	3. A 3 B 3 C 3 D 3 E 3 F
6	3 G
7	4. A 4 B 4 C 4 D 4 E 4 F
8	5. A 5 B 5 C 5 D 5 E 5 F
9	5 G 5 H 5 I 5 J 5 K 5
10	L 5 M 5 N 5
11	6. A 6 B 6 C 6 D 6
12	7. A 7 B 7 C 7 E
13	8. A 8 B 8 C 8 D 8 E 8 F
14	8 G 8 H 8 I 8 J 8 K 8
15	L 8
16	9. A 9 B 9
17	10. A 1 0 B 1 0 C 1 0 D 1
18	0 E 1 0 F 1
19	11. A 1 1 B 1 1 C 1 1 D 1
20	12. A 1 2 B 1 2 C 1 2 D 1
21	2 E 1 2 F 1 2
22	13. A 1 3 B 1 3 C 1 3 D 1
23	3 E 1 3
24	14. A 1 4 B 1 4 C 1 4
⋮	

FIG. 27A

LINE NUMBER	MUSIC NUMBER (INFORMATION NUMBER) TITLE
1	☆T I T L E
2	1. A 1 B 1 C 1 D 1 E 1 F
3	1 G 1
4	2. A 2 B 2 C 2
5	3. A 3 B 3 C 3 D 3 E 3 F
6	3 G
7	4. A 4 B 4 C 4 D 4 E 4 F
8	5. A 5 B 5 C 5 D 5 E 5 F
9	5 G 5 H 5 I 5 J 5 K 5
10	L 5 M 5 N 5
11	6. A 6 B 6 C 6 D 6
12	7. A 7 B 7 C 7 E
13	8. A 8 B 8 C 8 D 8 E 8 F
14	8 G 8 H 8 I 8 J 8 K 8
15	L 8
16	9. A 9 B 9
17	10. A 1 0 B 1 0 C 1 0 D 1
18	0 E 1 0 F 1
19	11. A 1 1 B 1 1 C 1 1 D 1
20	~A TOTAL OF 45 TITLES~

FIG. 27B

LINE NUMBER	MUSIC NUMBER (INFORMATION NUMBER) TITLE
1	☆TITLE
2	1. A1B1C1D1E1…
3	2. A2B2C2
4	3. A3B3C3D3E3…
5	4. A4B4C4D4E4F
6	5. A5B5C5D5E5…
7	6. A6B6C6D6
8	7. A7B7C7E
9	8. A8B8C8D8E8…
10	9. A9B9
11	10. A10B10C10D…
12	11. A11B11C11D1
13	12. A12B12C12D…
14	13. A13B13C13D…
15	14. A14B14C14
16	15. A15B15
17	16. A16B16C16D…
18	17. A17B
19	18. A18B18C18D…
20	~A TOTAL OF 45 TITLES~
21	
22	
39	
40	

FIG. 28A

LINE NUMBER	MUSIC NUMBER (INFORMATION NUMBER) TITLE
1	☆TITLE
2	1. A1B1C1D1E1…
3	2. A2B2C2
4	3. A3B3C3D3E3…
5	4. A4B4C4D4E4F
6	5. A5B5C5D5E5…
7	6. A6B6C6D6
8	7. A7B7C7E
9	8. A8B8C8D8E8…
10	9. A9B9
11	10. A10B10C10D…
12	11. A11B11C11D1
13	12. A12B12C12D…
14	13. A13B13C13D…
15	14. A14B14C14
16	15. A15B15
17	10. A16B16C16D…
18	17. A17B
19	18. A18B18C18D…
20	19. A19B19C19D…
21	20. A20B2
22	21. A21B21C21
39	38. A38B38C3
40	~A TOTAL OF 45 TITLES~

FIG. 28B

FIG. 29

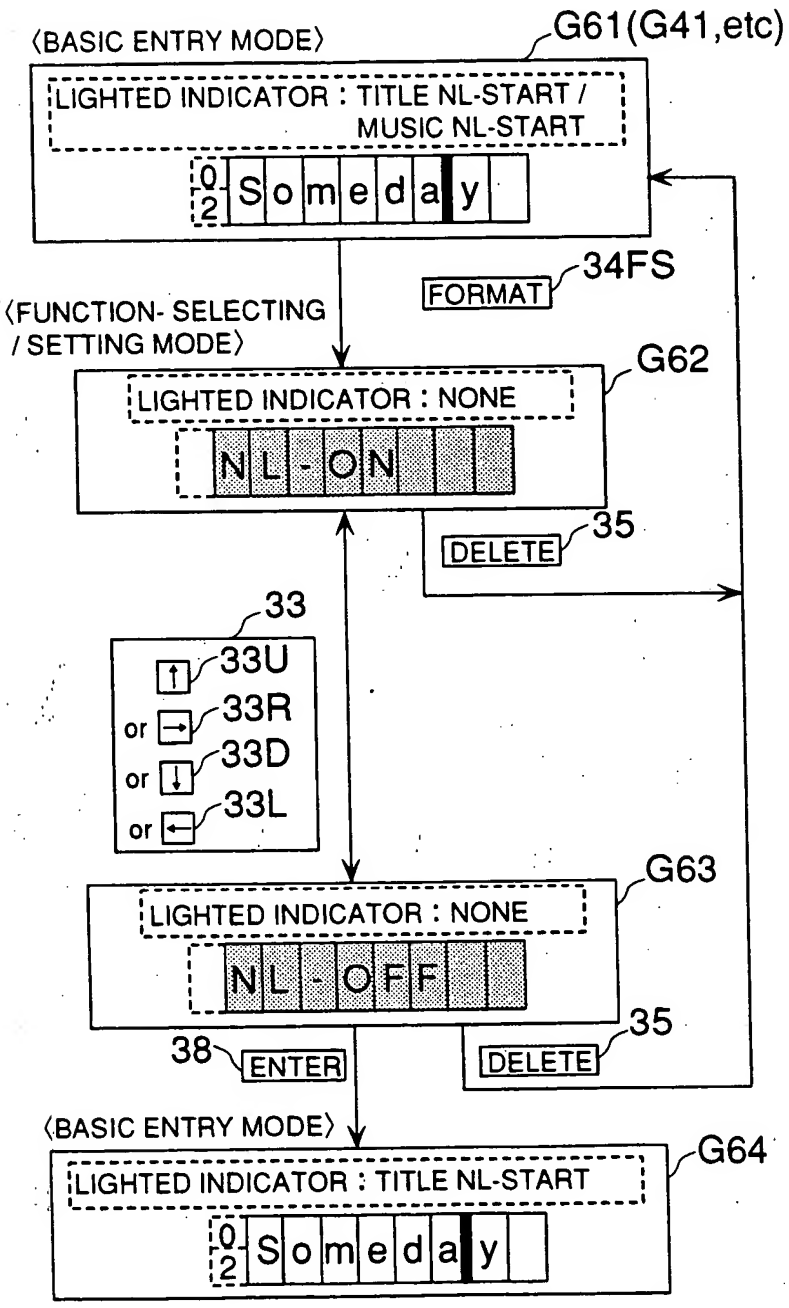

〈BASIC ENTRY MODE〉
G61(G41,etc)
LIGHTED INDICATOR : TITLE NL-START / MUSIC NL-START
02 Someday
FORMAT
34FS
〈FUNCTION- SELECTING / SETTING MODE〉
G62
LIGHTED INDICATOR : NONE
NL-ON
DELETE
35
33
33U
or
33R
or
33D
or
33L
G63
LIGHTED INDICATOR : NONE
NL-OFF
38
ENTER
DELETE
35
〈BASIC ENTRY MODE〉
G64
LIGHTED INDICATOR : TITLE NL-START
02 Someday

FIG. 30

CHARACTER	TITLE	MEANING
L1	LINE OVERFLOW MARK 1 ("MARK L1")	WHEN PRINTING IS CARRIED OUT IN THE STATE OF DISC LABEL (SINGLE SHEET) BEING DESIGNATED, LINES FOLLOWING A LINE MARKED WITH THIS MARK ARE NOT PRINTED ONLY TO PRINT A MESSAGE "A TOTAL OF XX TITLES " INSTEAD.
L2	LINE OVERFLOW MARK 2 ("MARK L2")	WHEN PRINTING IS CARRIED OUT IN THE STATE OF CASE LABEL (DOUBLE SHEET) BEING DESIGNATED, LINES FOLLOWING A LINE MARKED WITH THIS MARK ARE NOT PRINTED ONLY TO PRINT A MESSAGE "A TOTAL OF XX TITLES " INSTEAD.
C	CHARACTER OVERFLOW MARK ("MARK C")	WHEN PRINTING IS CARRIED OUT IN THE STATE OF NL-ON BEING DESIGNATED, A NEW LINE STARTS AT A CHARACTER LOCATED IMMEDIATELY AFTER THIS MARK, WHEREAS WHEN PRINTING IS CARRIED OUT IN THE STATE OF NL-OFF BEING DESIGNATED, ONLY ONE MARK C EXITS IN LINE OF TEXT DATA. WHEN THE TEXT DATA IS PRINTED, A LETTER IMMEDIATLY AFTER MARK C REPLACED BY A SYMBOL "..." TO SET THE SAME AS LAST LETTER TO BE PRINTED FOR THE LINE.

FIG. 31A

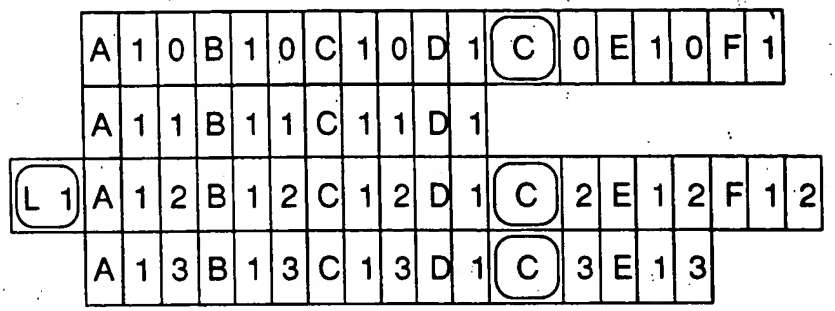


FIG. 31B

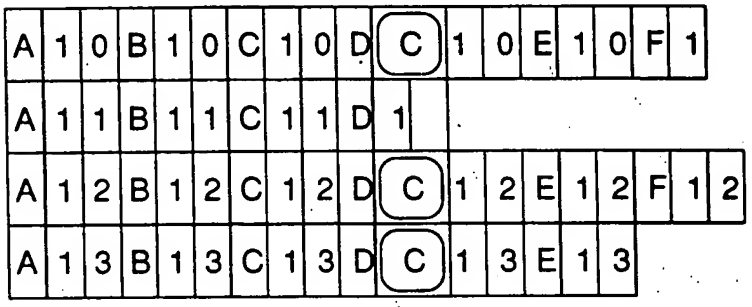


FIG. 31C

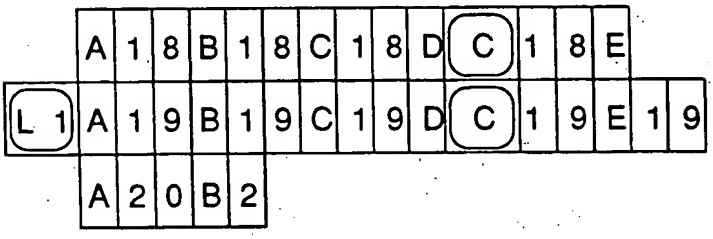


FIG. 31D

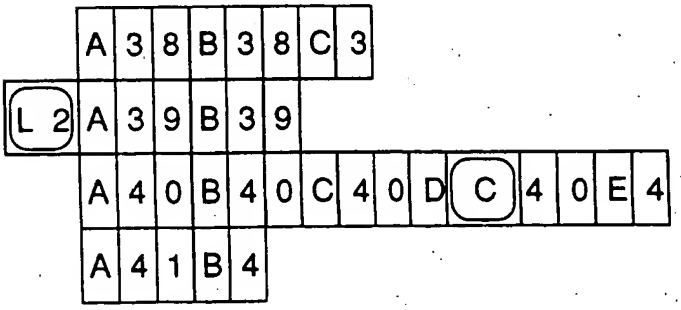


FIG. 32A

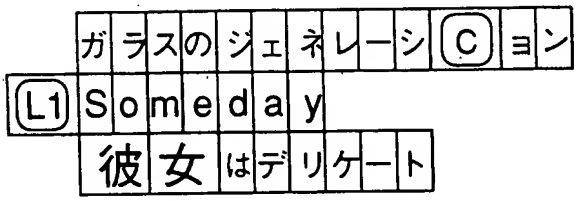


FIG. 32B

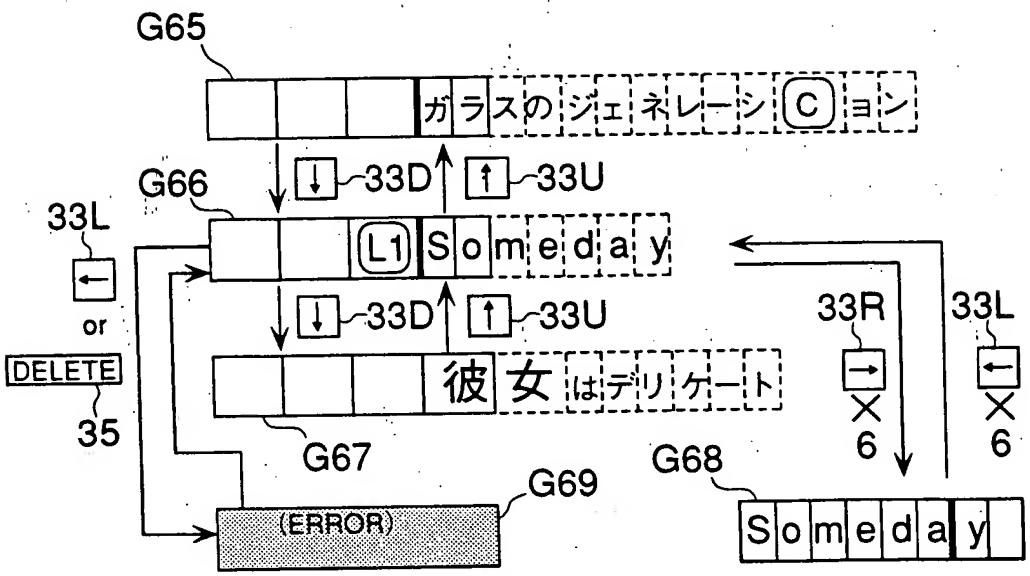


FIG. 33

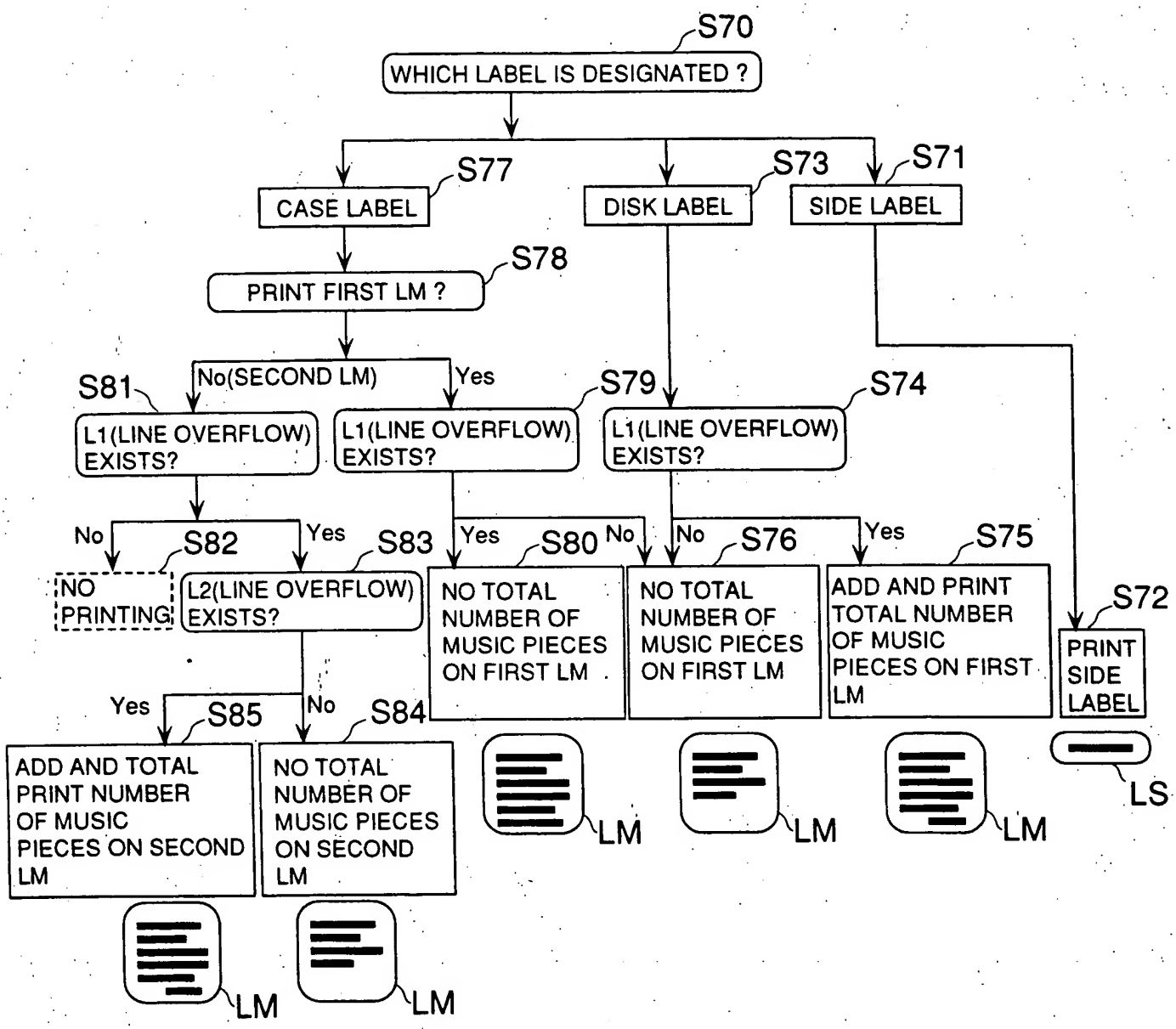

S70
WHICH LABEL IS DESIGNATED ?
S77
CASE LABEL
S73
DISK LABEL
S71
SIDE LABEL
S78
PRINT FIRST LM ?
No(SECOND LM)
Yes
S81
L1(LINE OVERFLOW) EXISTS?
S79
L1(LINE OVERFLOW) EXISTS?
S74
L1(LINE OVERFLOW) EXISTS?
No
S82
Yes
S83
Yes
S80
No
No
S76
Yes
S75
NO PRINTING
L2(LINE OVERFLOW) EXISTS?
NO TOTAL NUMBER OF MUSIC PIECES ON FIRST LM
NO TOTAL NUMBER OF MUSIC PIECES ON FIRST LM
ADD AND PRINT TOTAL NUMBER OF MUSIC PIECES ON FIRST LM
S72
PRINT SIDE LABEL
Yes
S85
No
S84
ADD AND TOTAL PRINT NUMBER OF MUSIC PIECES ON SECOND LM
NO TOTAL NUMBER OF MUSIC PIECES ON SECOND LM
LM
LM
LM
LM
LS

FIG. 34A

19. ガラスのジェネレーシ…
20. someday
21. 彼女はデリケート

FIG. 34B

19. ガラスのジェネレーシ…
20. someday
21. 彼女はデリケート

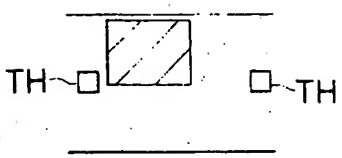


FIG. 35A

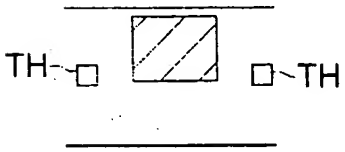


FIG. 35B

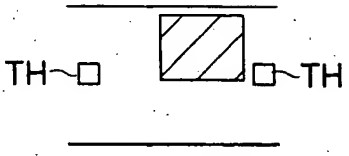


FIG. 35C

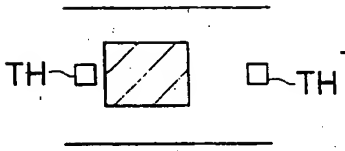


FIG. 35D

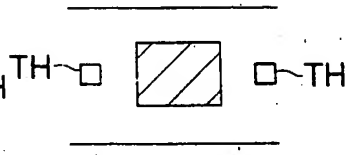


FIG. 35E

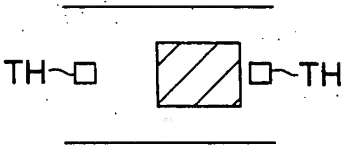


FIG. 35F

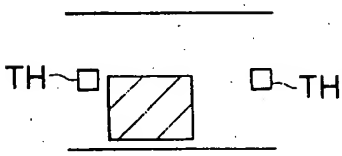


FIG. 35G

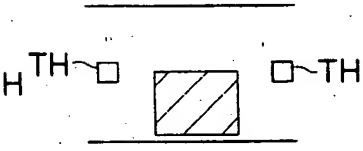


FIG. 35H

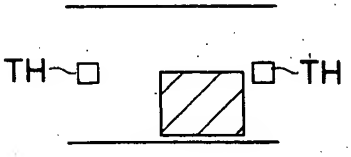


FIG. 35I

FIG. 36A

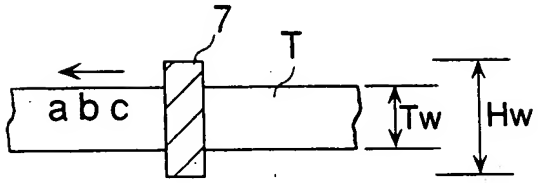


FIG. 36B

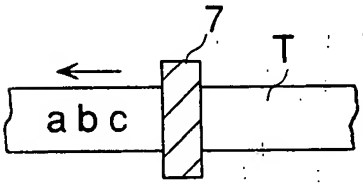
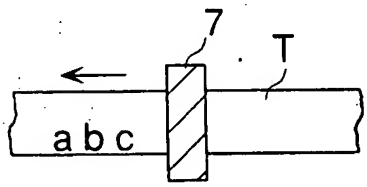


FIG. 36C



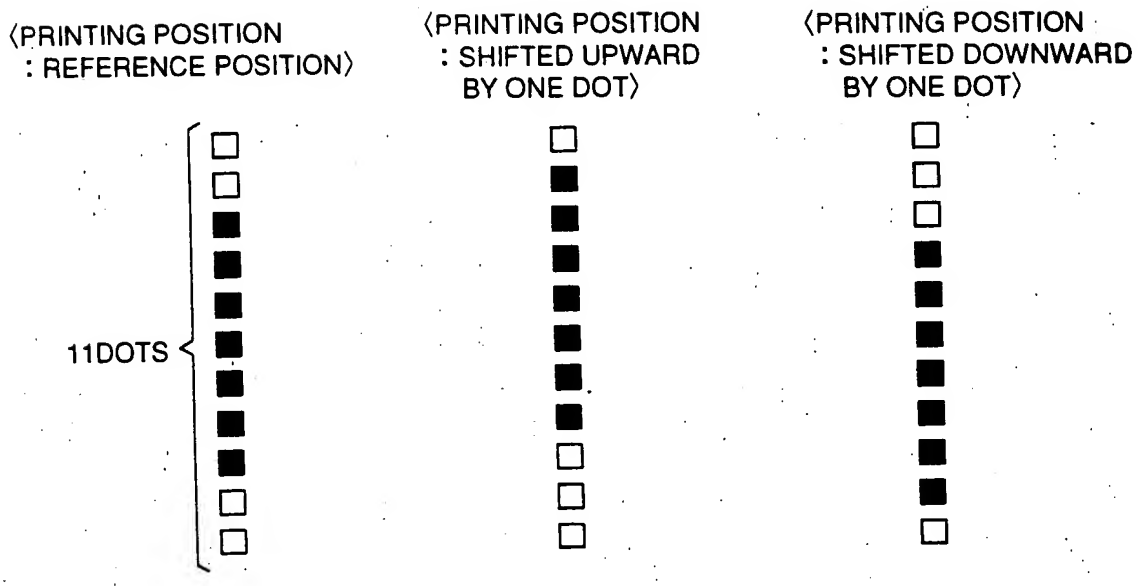


FIG. 37A FIG. 37B FIG. 37C

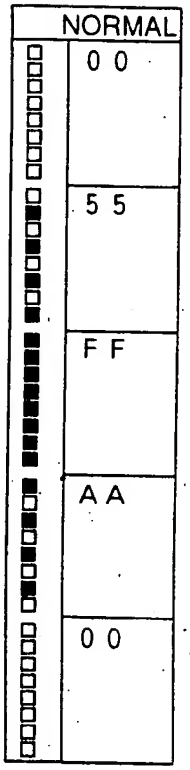


FIG. 38A

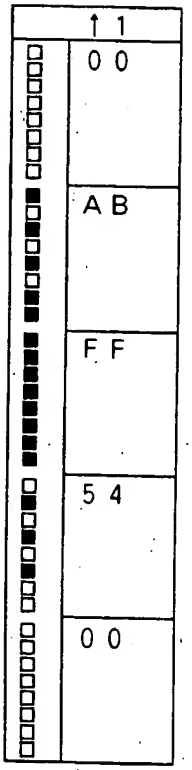


FIG. 38B

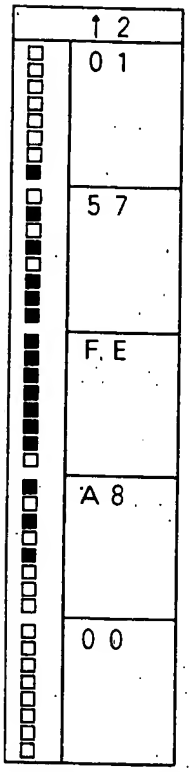


FIG. 38C

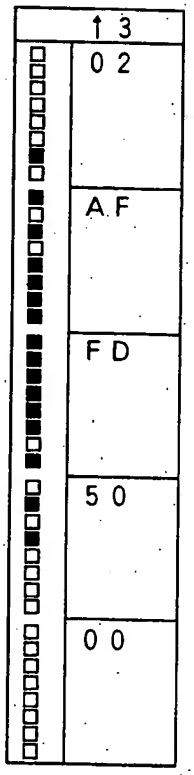


FIG. 38D

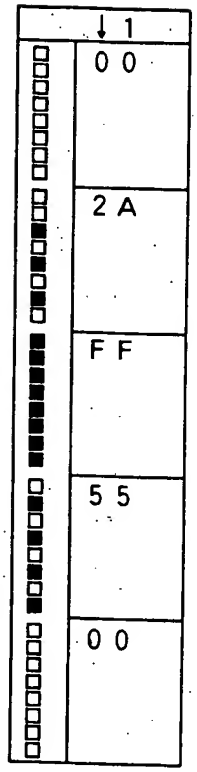


FIG. 38E

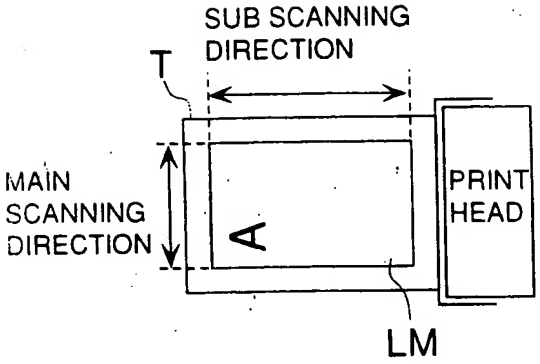


FIG. 39A

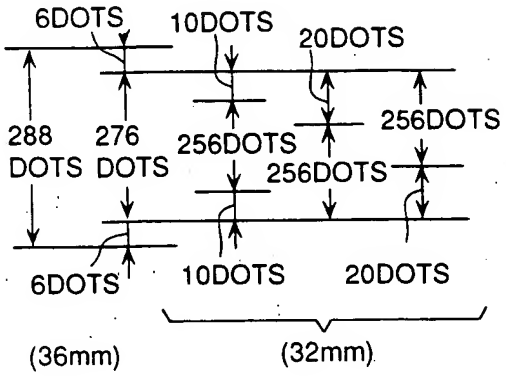


FIG. 39B

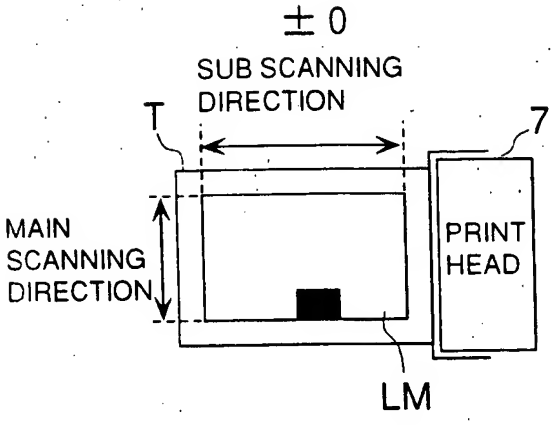


FIG. 40A

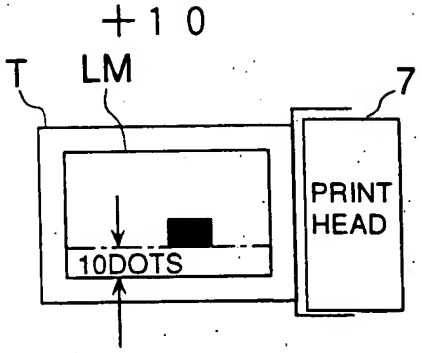


FIG. 40B

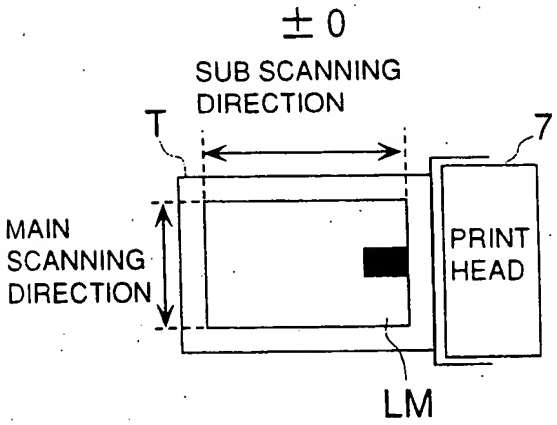


FIG. 41A

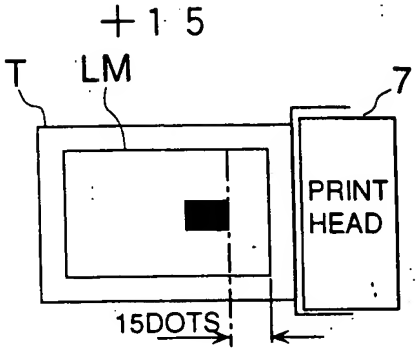


FIG. 41B

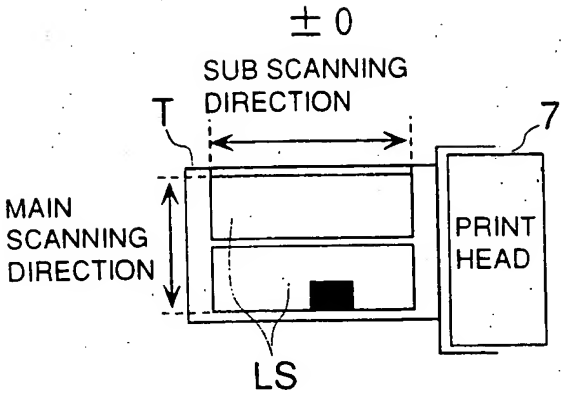


FIG. 42A

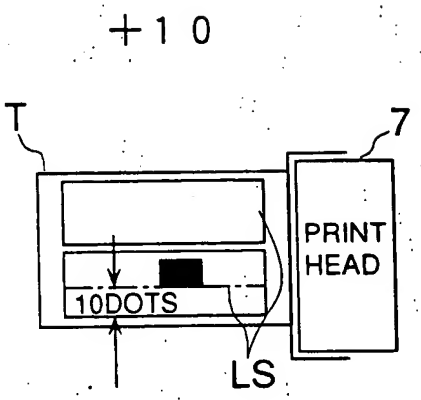


FIG. 42B

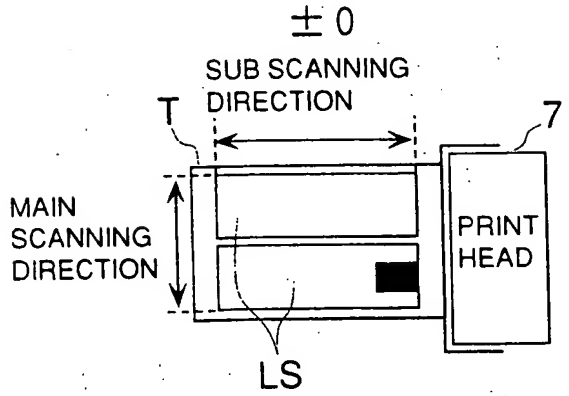


FIG. 43A

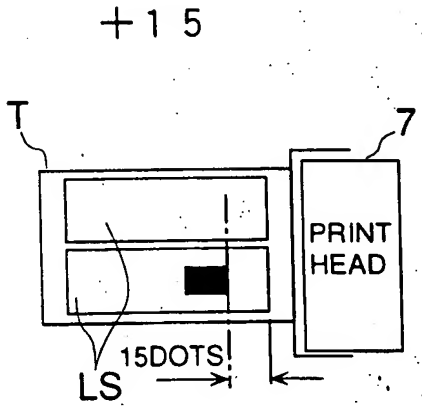


FIG. 43B

FIG. 44

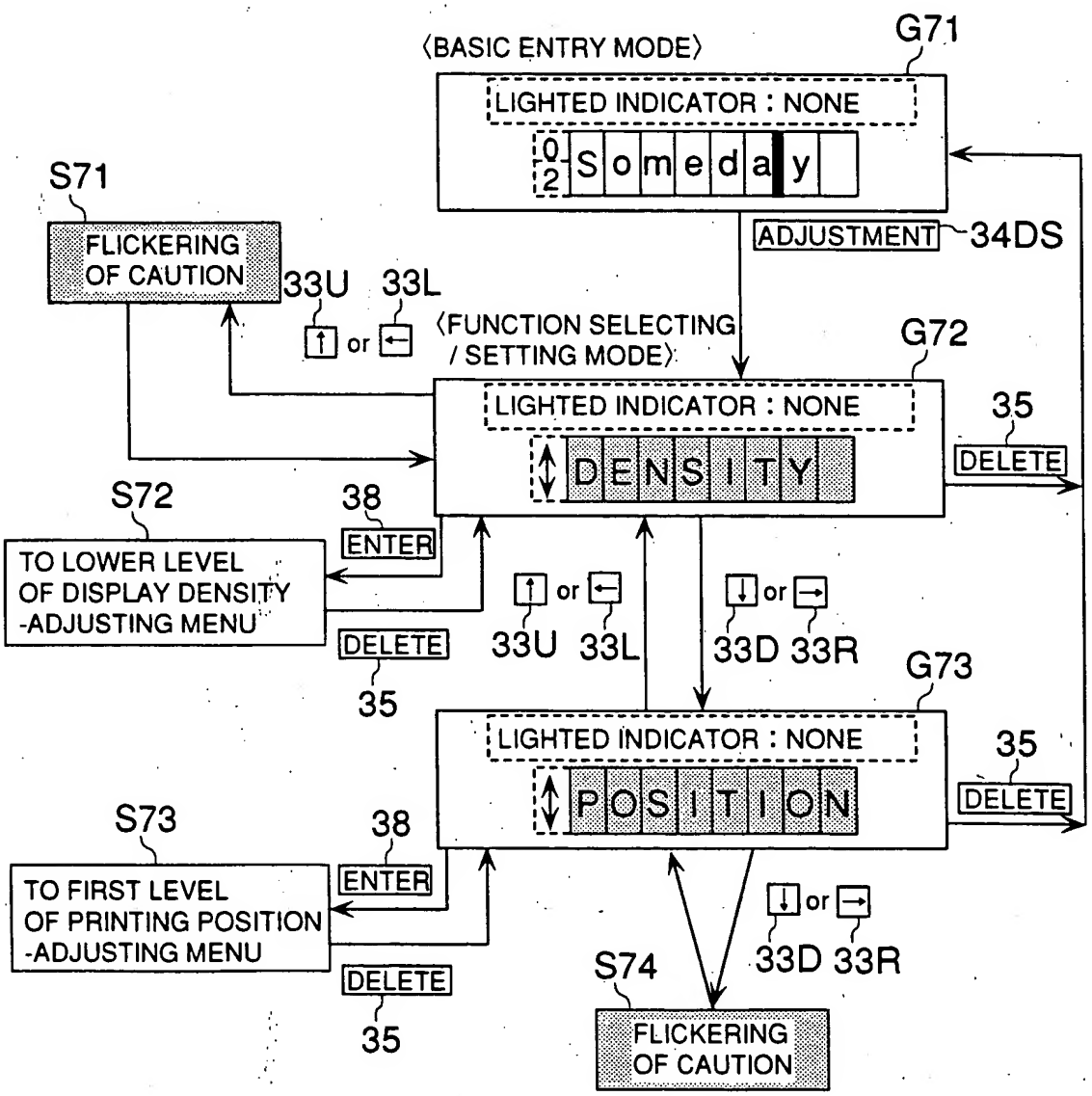

〈BASIC ENTRY MODE〉
G71
LIGHTED INDICATOR : NONE
02 Someday
ADJUSTMENT
34DS
S71
FLICKERING OF CAUTION
33U
33L
or
〈FUNCTION SELECTING / SETTING MODE〉
G72
LIGHTED INDICATOR : NONE
DENSITY
35
DELETE
S72
38
ENTER
TO LOWER LEVEL OF DISPLAY DENSITY -ADJUSTING MENU
DELETE
35
33U
33L
or
33D
33R
G73
LIGHTED INDICATOR : NONE
POSITION
35
DELETE
S73
38
ENTER
TO FIRST LEVEL OF PRINTING POSITION -ADJUSTING MENU
DELETE
35
S74
FLICKERING OF CAUTION

FIG. 45

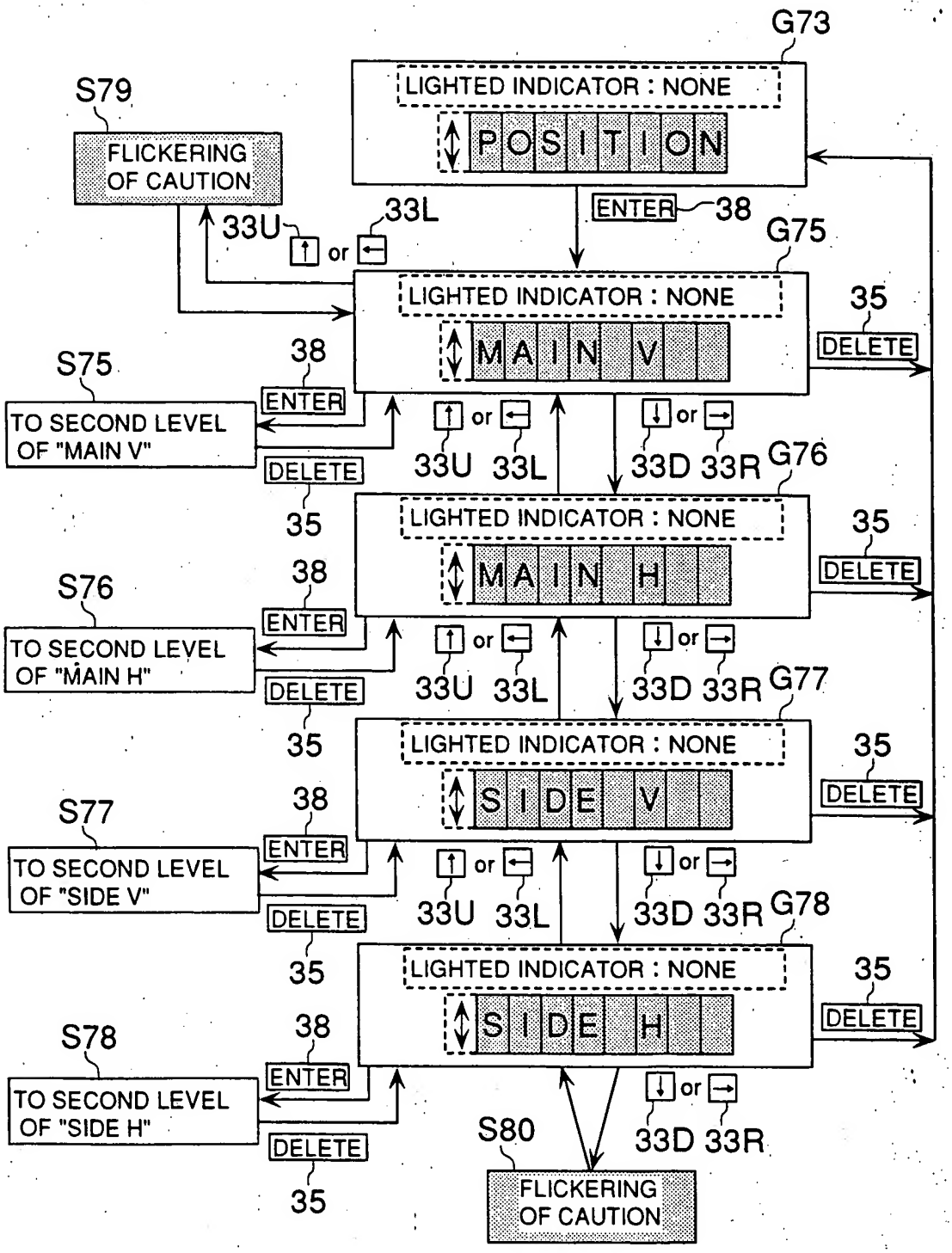

G73
LIGHTED INDICATOR : NONE
POSITION
S79
FLICKERING OF CAUTION
33U
or
33L
ENTER
38
G75
LIGHTED INDICATOR : NONE
MAIN V
35
DELETE
S75
38
ENTER
TO SECOND LEVEL OF "MAIN V"
DELETE
35
33U 33L
33D 33R
G76
LIGHTED INDICATOR : NONE
MAIN H
S76
TO SECOND LEVEL OF "MAIN H"
G77
LIGHTED INDICATOR : NONE
SIDE V
S77
TO SECOND LEVEL OF "SIDE V"
G78
LIGHTED INDICATOR : NONE
SIDE H
S78
TO SECOND LEVEL OF "SIDE H"
S80
FLICKERING OF CAUTION

FIG. 46

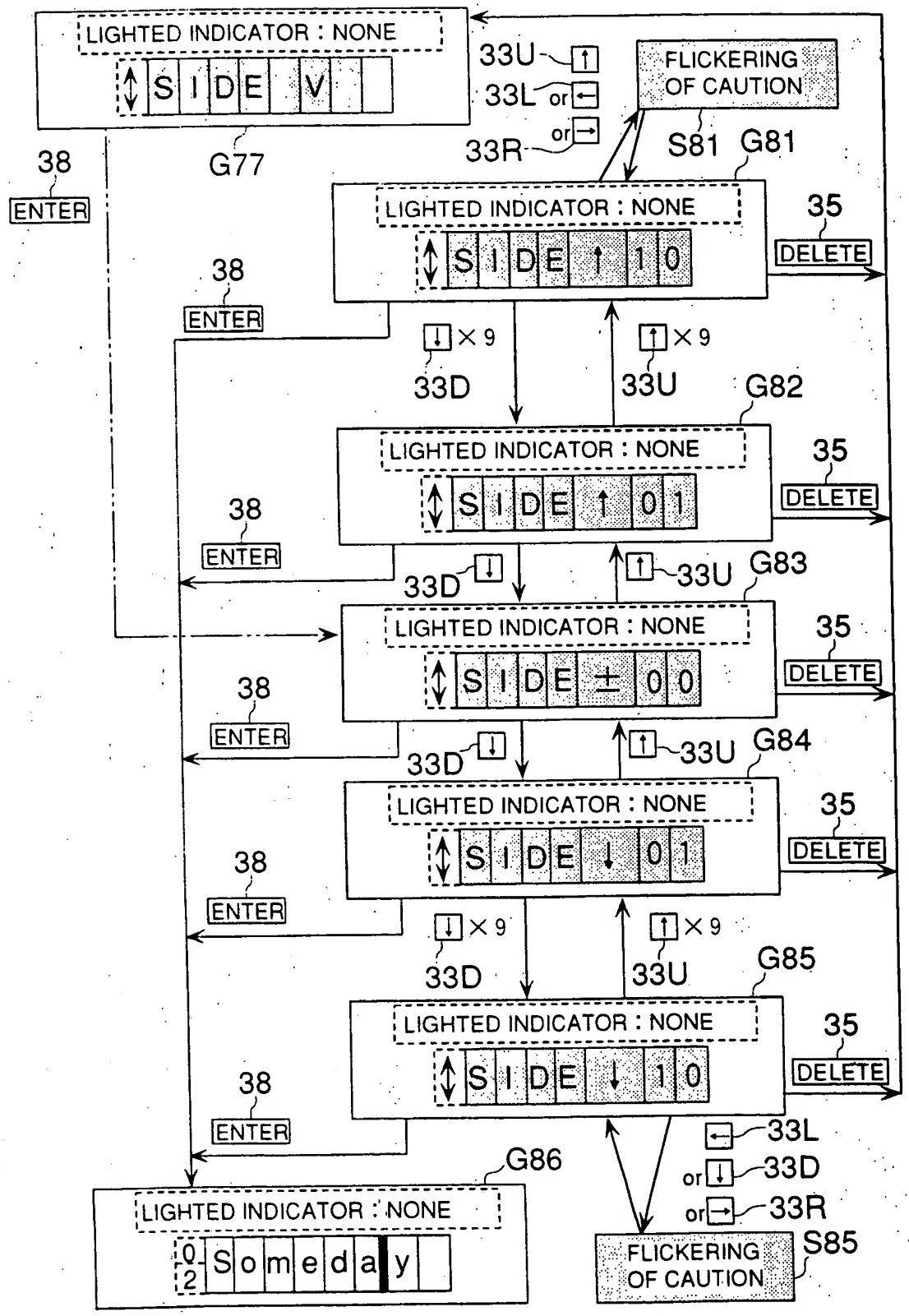

LIGHTED INDICATOR : NONE
SIDE V
G77
33U
33L or
33R or
FLICKERING OF CAUTION
S81
G81
38
ENTER
LIGHTED INDICATOR : NONE
SIDE ↑ 10
35
DELETE
× 9
33D
33U
G82
LIGHTED INDICATOR : NONE
SIDE ↑ 01
G83
LIGHTED INDICATOR : NONE
SIDE ± 00
G84
LIGHTED INDICATOR : NONE
SIDE ↓ 01
G85
LIGHTED INDICATOR : NONE
SIDE ↓ 10
33L
or 33D
or 33R
S85
G86
LIGHTED INDICATOR : NONE
02 Someday
FLICKERING OF CAUTION

FIG. 47

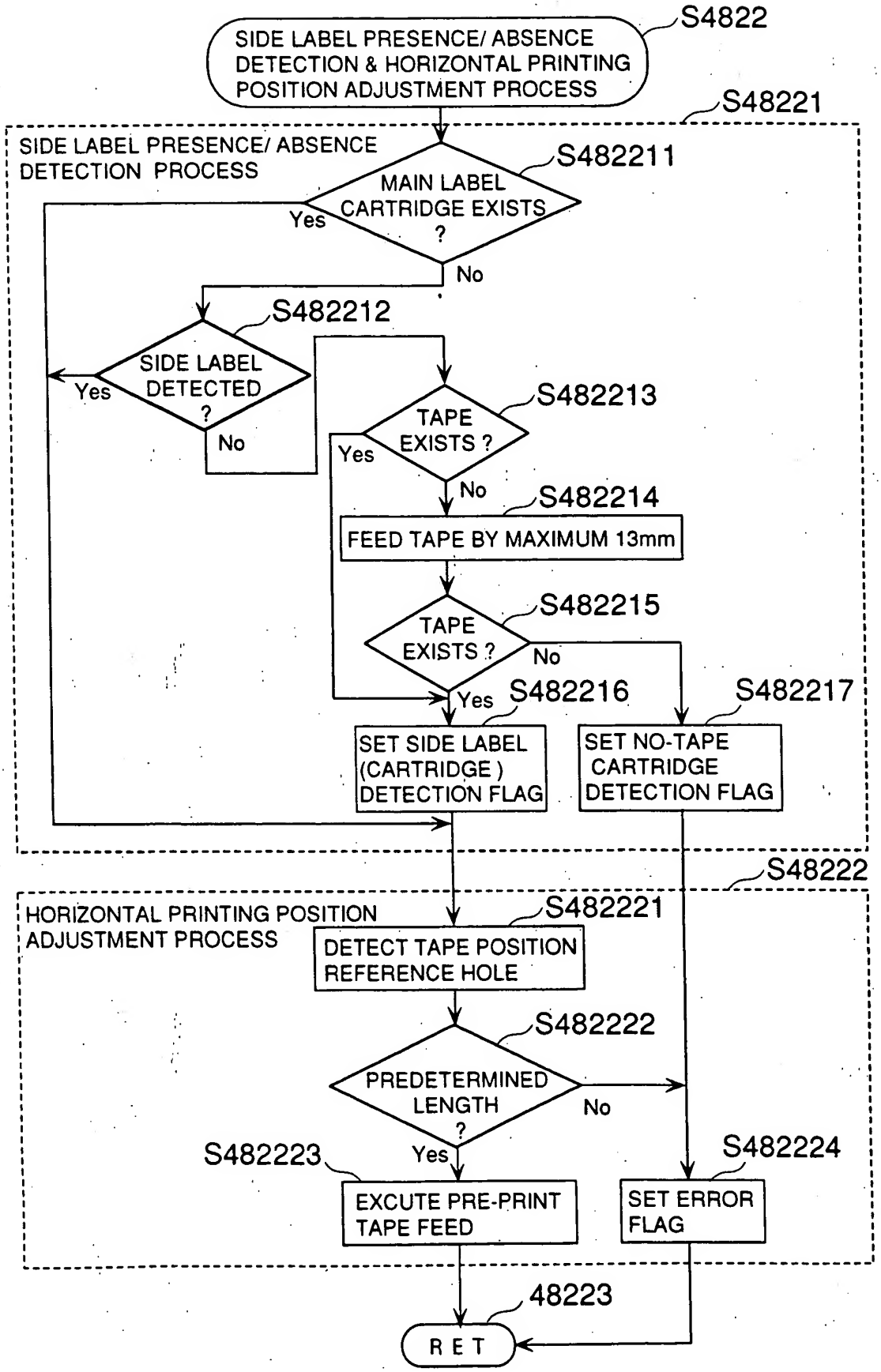

S4822
SIDE LABEL PRESENCE/ ABSENCE DETECTION & HORIZONTAL PRINTING POSITION ADJUSTMENT PROCESS
S48221
SIDE LABEL PRESENCE/ ABSENCE DETECTION PROCESS
S482211
MAIN LABEL CARTRIDGE EXISTS ?
Yes
No
S482212
SIDE LABEL DETECTED ?
Yes
No
S482213
TAPE EXISTS ?
Yes
No
S482214
FEED TAPE BY MAXIMUM 13mm
S482215
TAPE EXISTS ?
No
Yes
S482216
SET SIDE LABEL (CARTRIDGE) DETECTION FLAG
S482217
SET NO-TAPE CARTRIDGE DETECTION FLAG
S48222
HORIZONTAL PRINTING POSITION ADJUSTMENT PROCESS
S482221
DETECT TAPE POSITION REFERENCE HOLE
S482222
PREDETERMINED LENGTH ?
No
Yes
S482223
EXCUTE PRE-PRINT TAPE FEED
S482224
SET ERROR FLAG
48223
RET

FIG. 48A

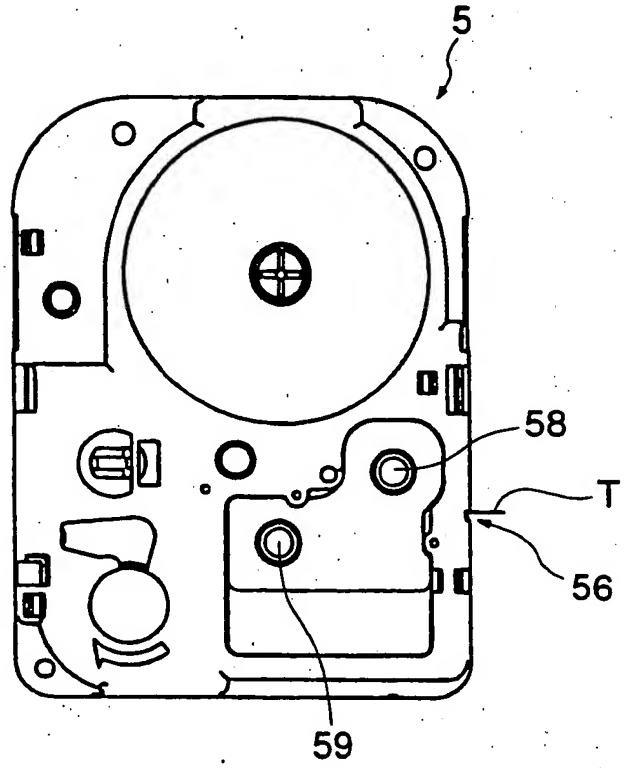


FIG. 48B

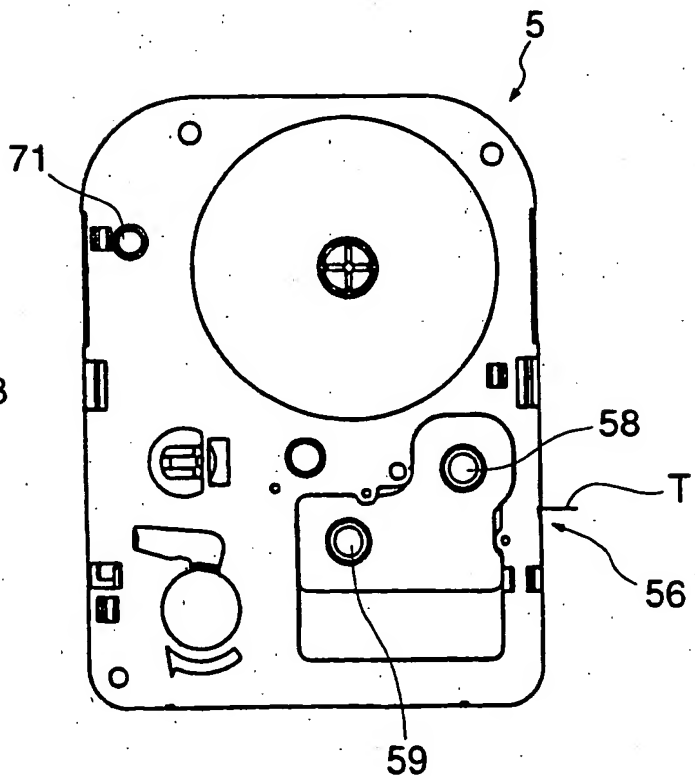


FIG. 49A

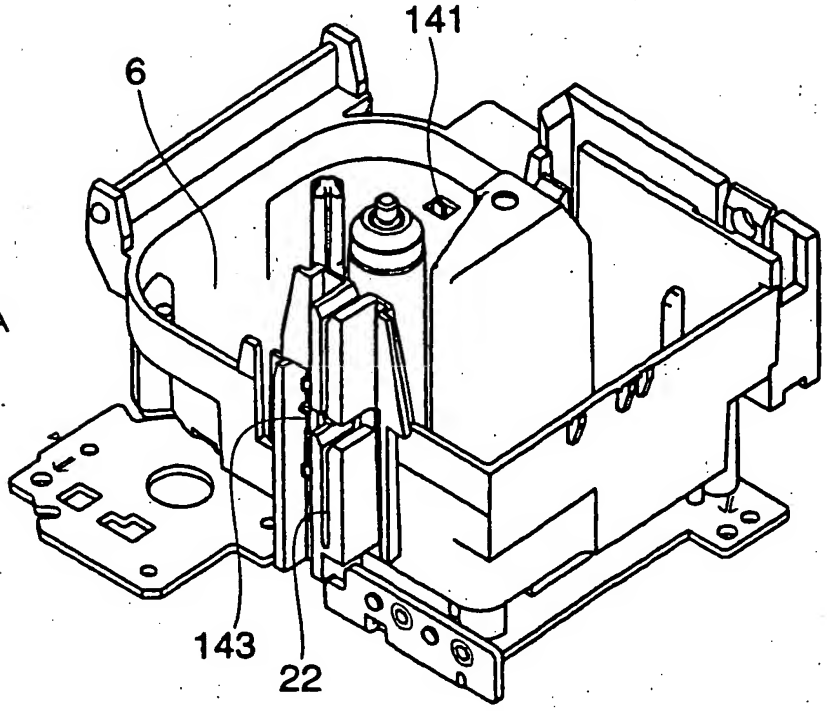


FIG. 49B

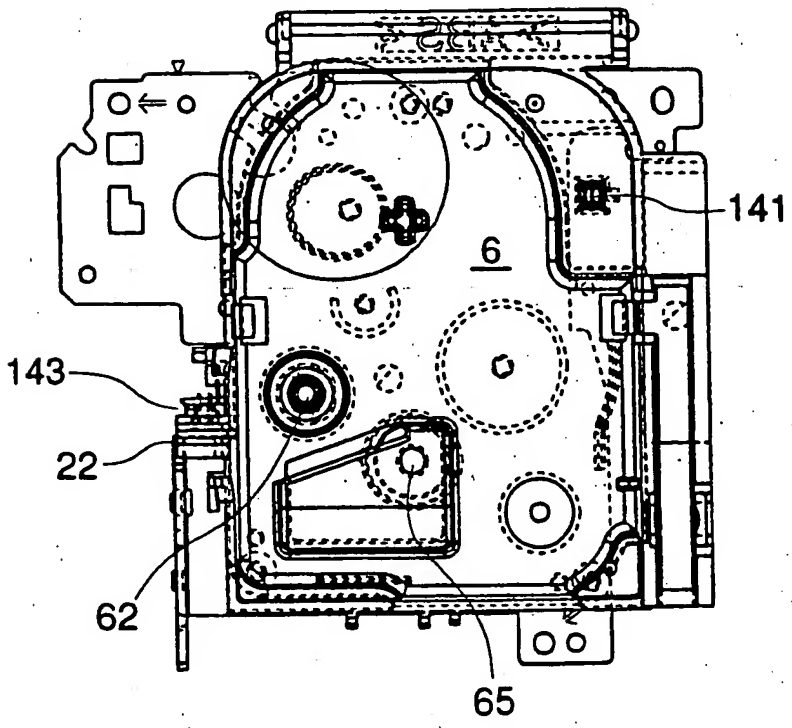


FIG. 50

BITS	DETAILS
b31	CARTRIDGE INFORMATION
b30	
b29	NEW LINE-STARTING INFROMATION
b28	(EFFECTIVE FOR MAIN LABEL ONLY)
b27	PRINT SHEET NUMBER INFORMATION
b26	(EFFECTIVE FOR MAIN LABEL ONLY)
b25	RESERVE
b24	
b23	FRAME INFORMATION
b22	
b21	
b20	
b19	
b18	
b17	
b16	(EFFECTIVE FOR MAIN LABEL ONLY)
b15	RESERVE
b14	
b13	
b12	TITLE LINE : CHRARACTER DECORATION INFORMATION "TYPEFACE"
b11	TITLE LINE : CHRARACTER DECORATION INFORMATION "EXTEND"
b10	TITLE LINE : CHRARACTER DECORATION INFORMATION "SHORTEN"
b09	TITLE LINE : CHRARACTER DECORATION INFORMATION "OUTLINE"
b08	TITLE LINE : CHRARACTER DECORATION INFORMATION "ITALIC"
b07	RESERVE
b06	
b05	
b04	MUSIC TITLE LINE : CHRARACTER DECORATION INFORMATION "TYPEFACE"
b04	MUSIC TITLE LINE : CHRARACTER DECORATION INFORMATION "EXTEND"
b04	MUSIC TITLE LINE : CHRARACTER DECORATION INFORMATION "SHORTEN"
b04	MUSIC TITLE LINE : CHRARACTER DECORATION INFORMATION "OUTLINE"
b04	MUSIC TITLE LINE : CHRARACTER DECORATION INFORMATION "ITALIC"

FIG. 51A

b31	b30	CARTRIDGE INFORMATION
0	0	NO CARTRIDGE
0	1	MAIN LABEL CARTRIDGE
1	0	SIDE LABEL CARTRIDGE
1	1	UNUSABLE CARTRIDGE

FIG. 51B

b29/b28	NEW LINE-STARTING SETTINGS
0	NL-OFF
1	NL-ON

FIG. 51C

b27	b26	PRINT SHEET NUMBER INFORMATION
0	–	PRINTING ON FIRST SHEET IS SET
1	0	PRINTING ON BOTH SHEETS IS SET; AND FIRST SHEET IS TO BE PRINTED NOW
1	1	PRINTING ON BOTH SHEETS IS SET, AND SECOND SHEET IS TO BE PRINTED NOW

FIG. 52

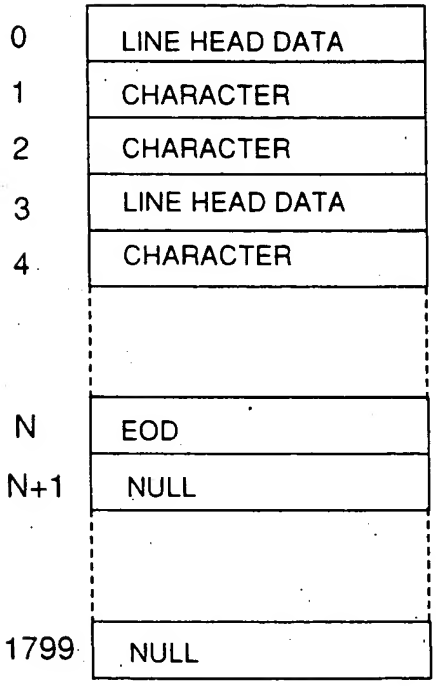

0
LINE HEAD DATA
1
CHARACTER
2
CHARACTER
3
LINE HEAD DATA
4
CHARACTER
N
EOD
N+1
NULL
1799
NULL

FIG. 53A

b15	b14	b13	b12	KINDS OF DATA
0	1	1	1	EDIT INFORMATION
OTHER THAN THE ABOVE				CHARACTER CODE

FIG. 53B

BIT		DETAILS
b15	0	INFORMATION OF TYPE OF DATA
b14	1	"EDIT INFORMATION"
b13	1	
b12	1	
b11	1	CLASSIFICATION OF EDIT INFORMATION
b10	0	"LINE HEAD DATA"
b09	0	
b08	0	
b07	—	MUSIC NUMBER
b06	—	
b05	—	
b04	—	
b03	—	
b02	—	
b01	—	
b00	—	

FIG. 53C

BIT		DETAILS
b15	0	INFORMATION OF TYPE OF DATA
b14	1	"EDIT INFORMATION"
b13	1	
b12	1	
b11	1	CLASSIFICATION OF EDIT INFORMATION
b10	1	"END MARK"
b09	1	
b08	1	
b07	1	FIXED VALUE
b06	1	
b05	1	
b04	1	
b03	1	FIXED VALUE
b02	1	
b01	1	
b00	1	

FIG. 54

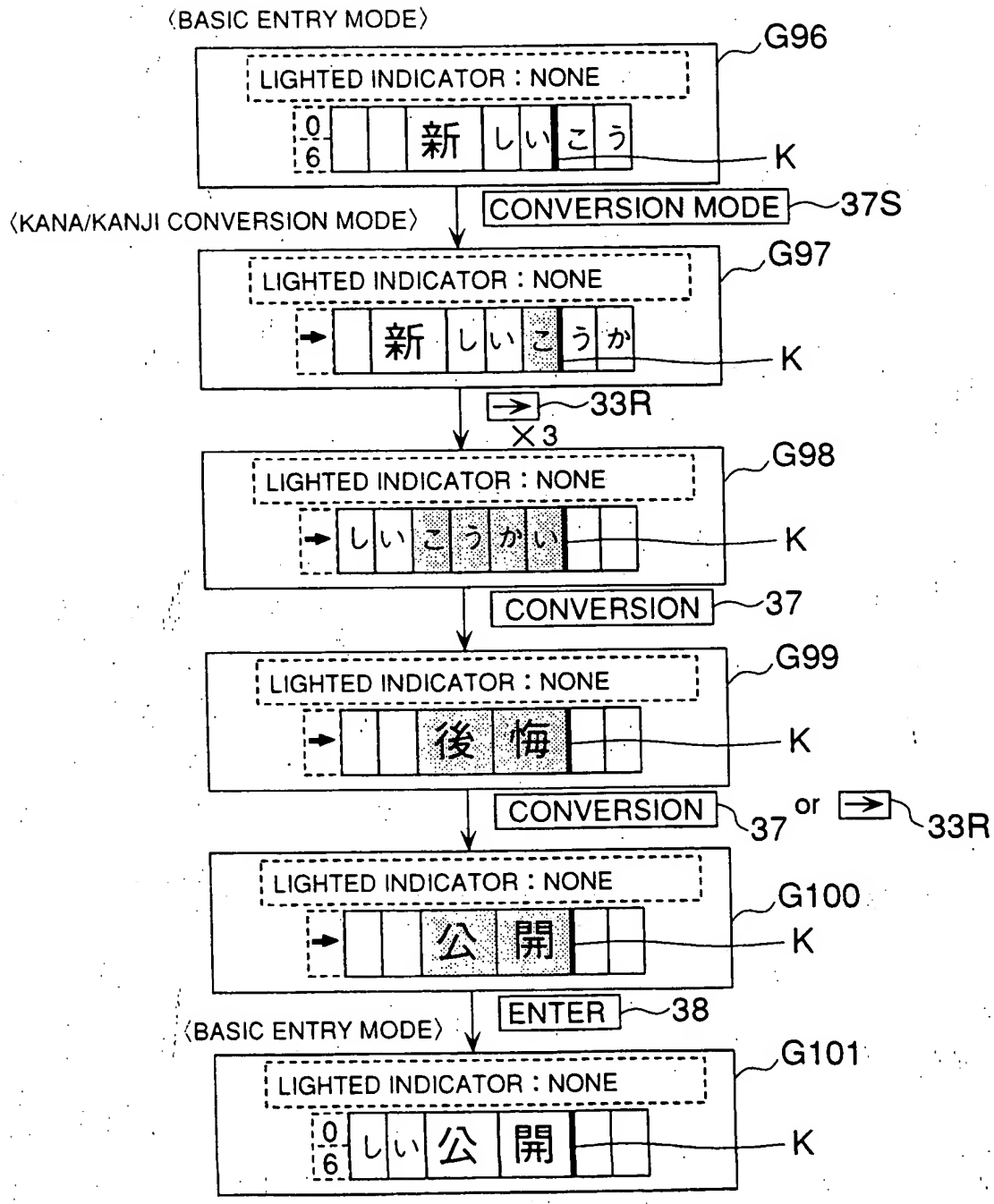

〈BASIC ENTRY MODE〉
G96
LIGHTED INDICATOR : NONE
0
6
新 し い こ う
K
CONVERSION MODE
37S
〈KANA/KANJI CONVERSION MODE〉
G97
LIGHTED INDICATOR : NONE
新 し い こ う か
K
33R
×3
G98
LIGHTED INDICATOR : NONE
し い こ う か い
K
CONVERSION
37
G99
LIGHTED INDICATOR : NONE
後 悔
K
CONVERSION
37
or
33R
G100
LIGHTED INDICATOR : NONE
公 開
K
ENTER
38
〈BASIC ENTRY MODE〉
G101
LIGHTED INDICATOR : NONE
0
6
し い 公 開
K

FIG. 55

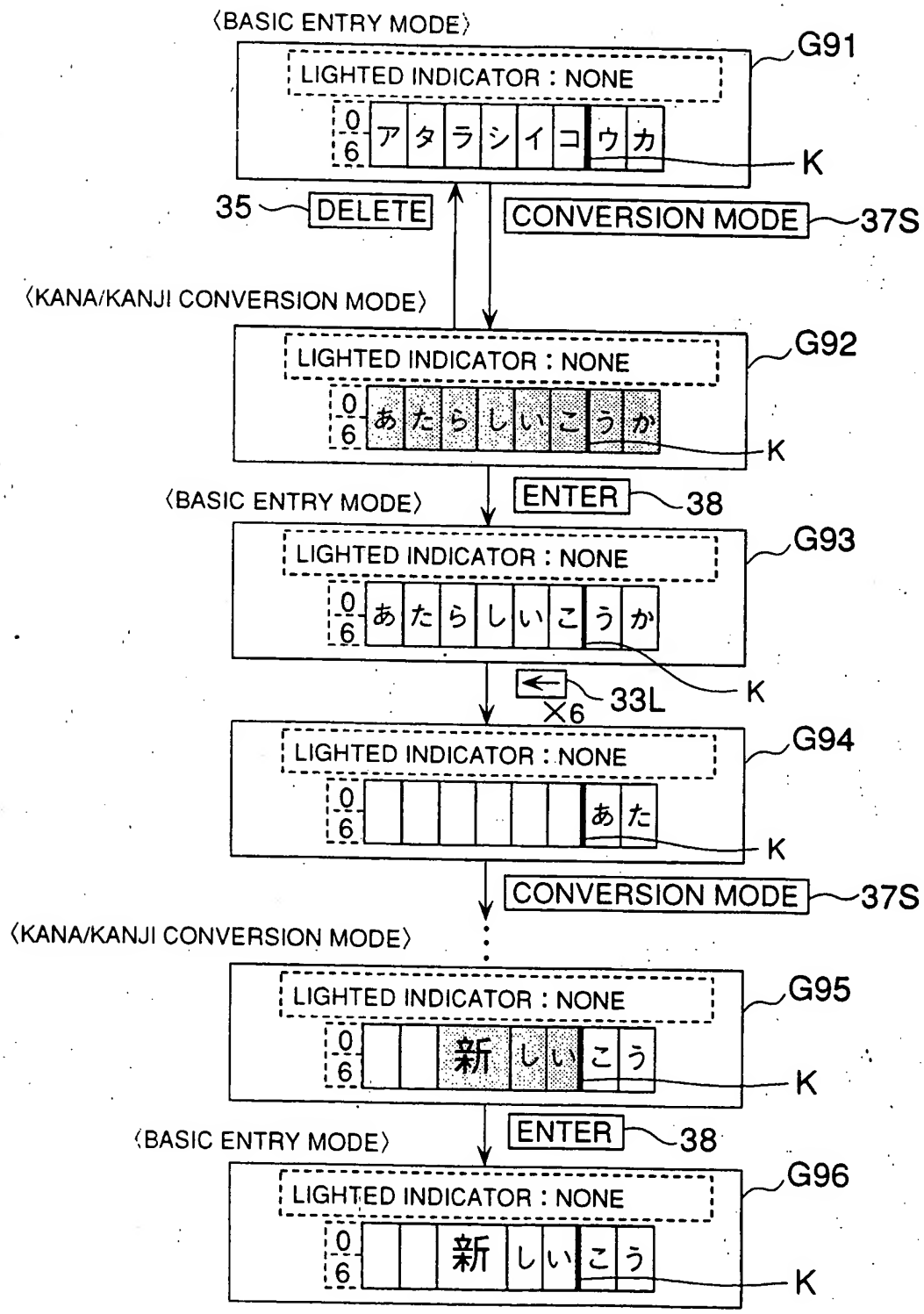

〈BASIC ENTRY MODE〉
LIGHTED INDICATOR : NONE
0
6
ア タ ラ シ イ コ ウ カ
K
G91
35
DELETE
CONVERSION MODE
37S
〈KANA/KANJI CONVERSION MODE〉
LIGHTED INDICATOR : NONE
あ た ら し い こ う か
G92
〈BASIC ENTRY MODE〉
ENTER
38
G93
33L
×6
G94
CONVERSION MODE
37S
〈KANA/KANJI CONVERSION MODE〉
新 し い こ う
G95
〈BASIC ENTRY MODE〉
ENTER
38
G96

FIG. 56

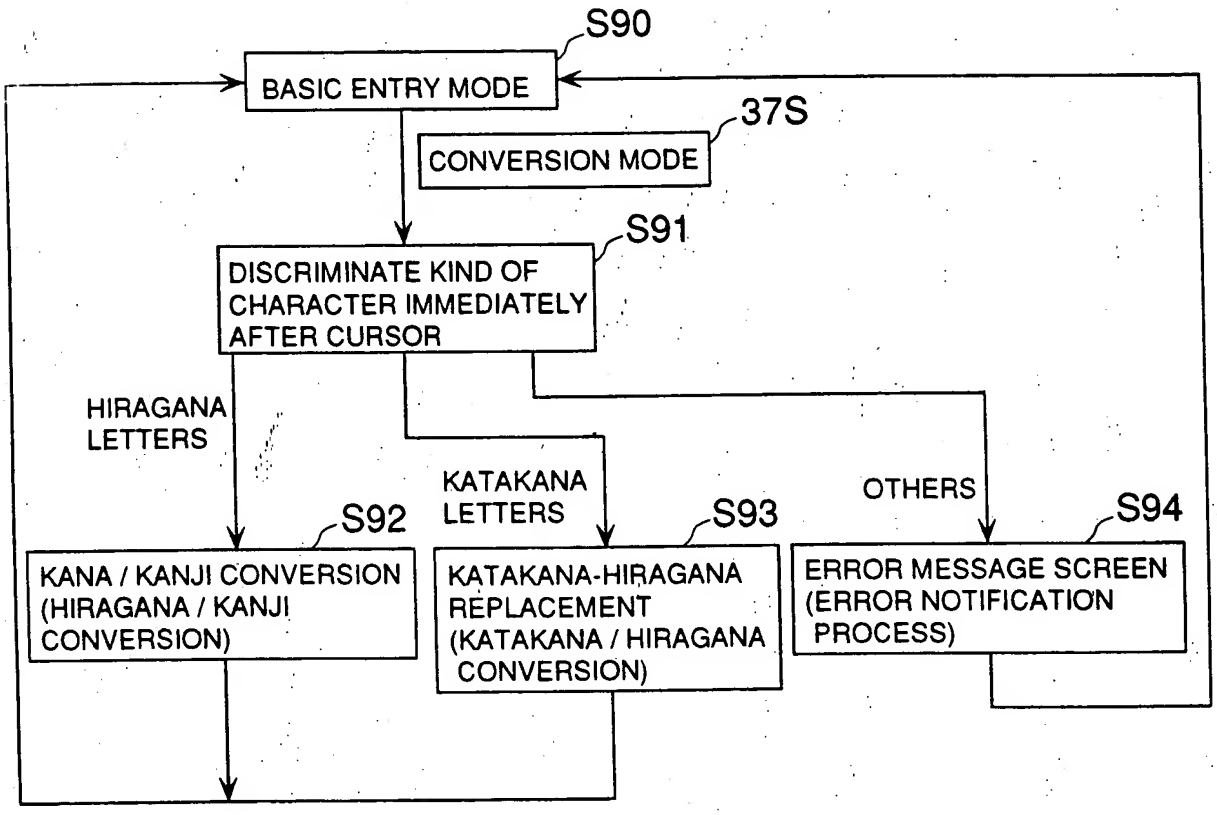

S90
BASIC ENTRY MODE
37S
CONVERSION MODE
S91
DISCRIMINATE KIND OF CHARACTER IMMEDIATELY AFTER CURSOR
HIRAGANA LETTERS
KATAKANA LETTERS
OTHERS
S92
S93
S94
KANA / KANJI CONVERSION (HIRAGANA / KANJI CONVERSION)
KATAKANA-HIRAGANA REPLACEMENT (KATAKANA / HIRAGANA CONVERSION)
ERROR MESSAGE SCREEN (ERROR NOTIFICATION PROCESS)

FIG. 57

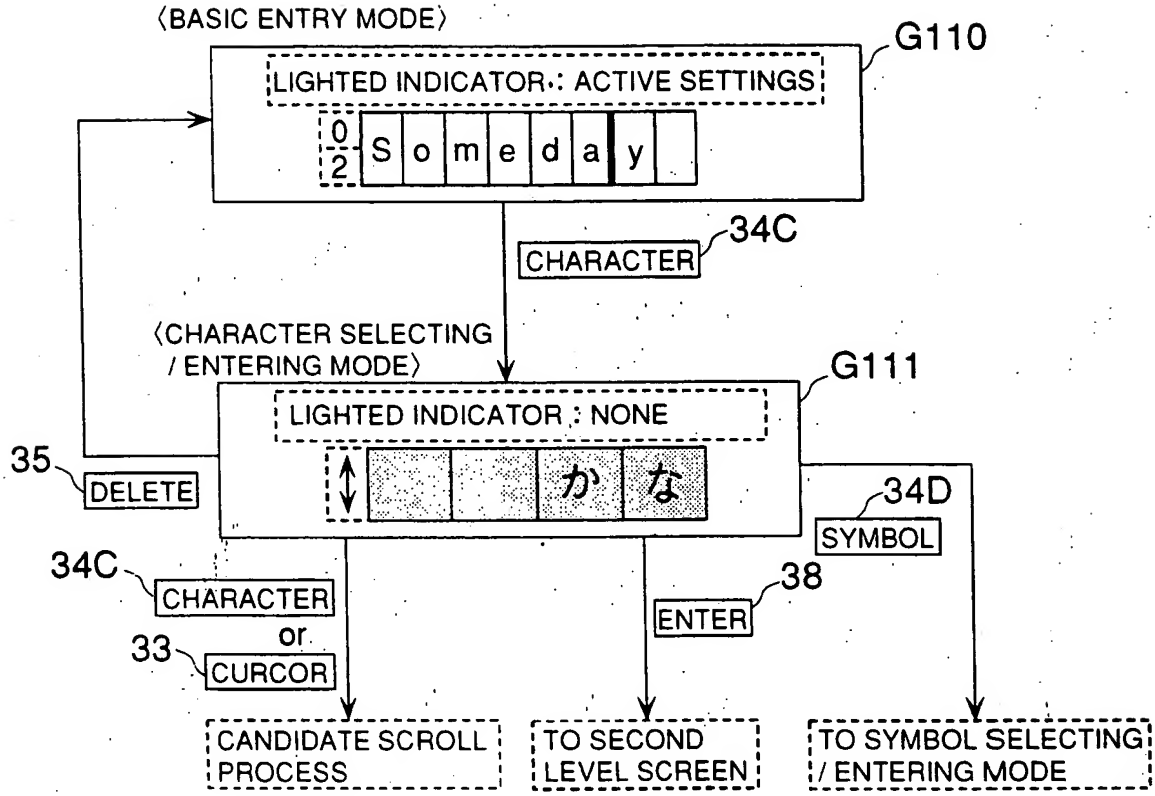

〈BASIC ENTRY MODE〉
G110
LIGHTED INDICATOR : ACTIVE SETTINGS
02
Someday
CHARACTER
34C
〈CHARACTER SELECTING / ENTERING MODE〉
G111
LIGHTED INDICATOR : NONE
か
な
35
DELETE
34D
SYMBOL
34C
CHARACTER
or
33
CURCOR
38
ENTER
CANDIDATE SCROLL PROCESS
TO SECOND LEVEL SCREEN
TO SYMBOL SELECTING / ENTERING MODE

FIG. 58

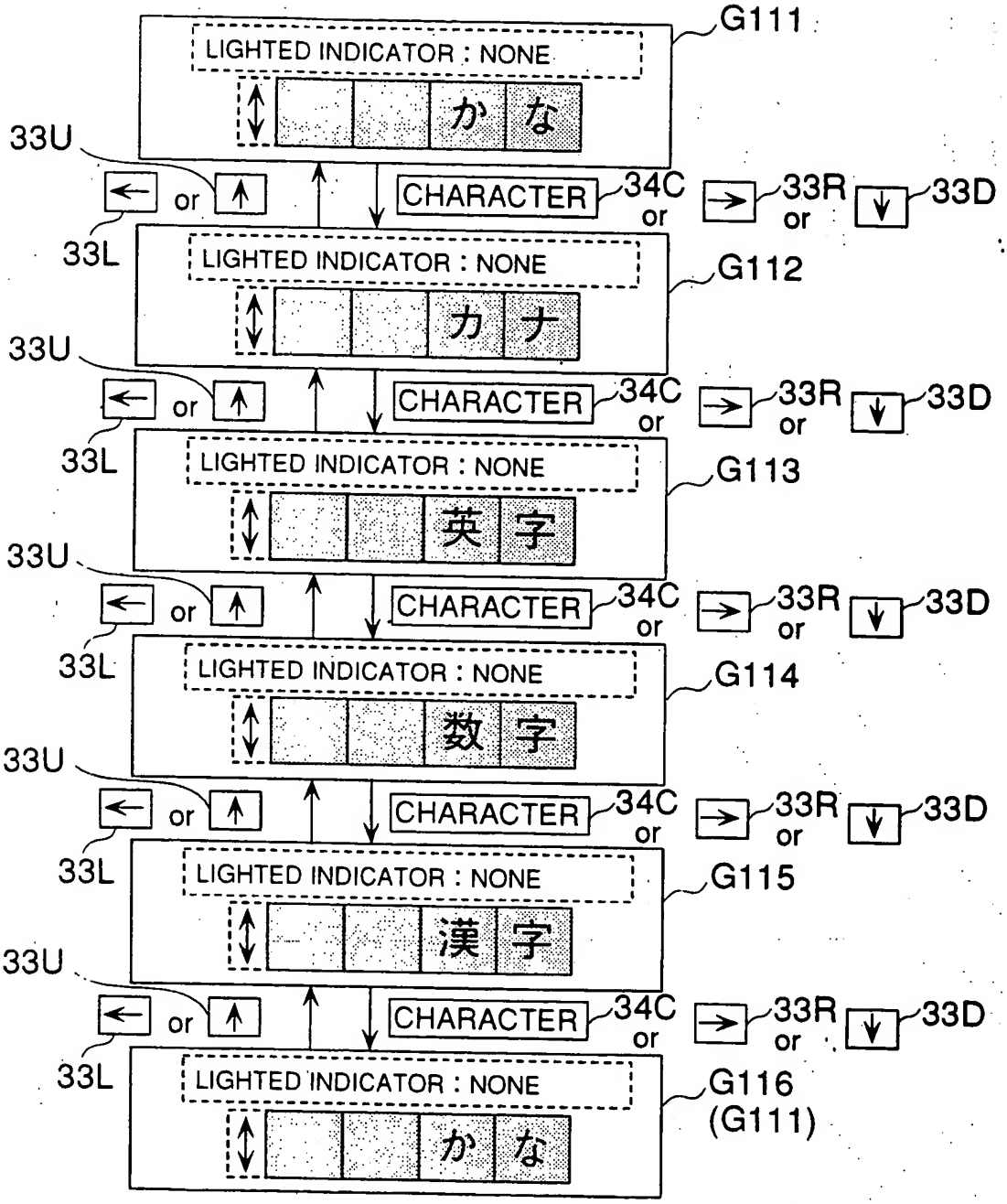

G111
LIGHTED INDICATOR : NONE
か な
33U
or
CHARACTER
34C
or
33R
or
33D
33L
G112
カ ナ
G113
英 字
G114
数 字
G115
漢 字
G116
(G111)

FIG. 59

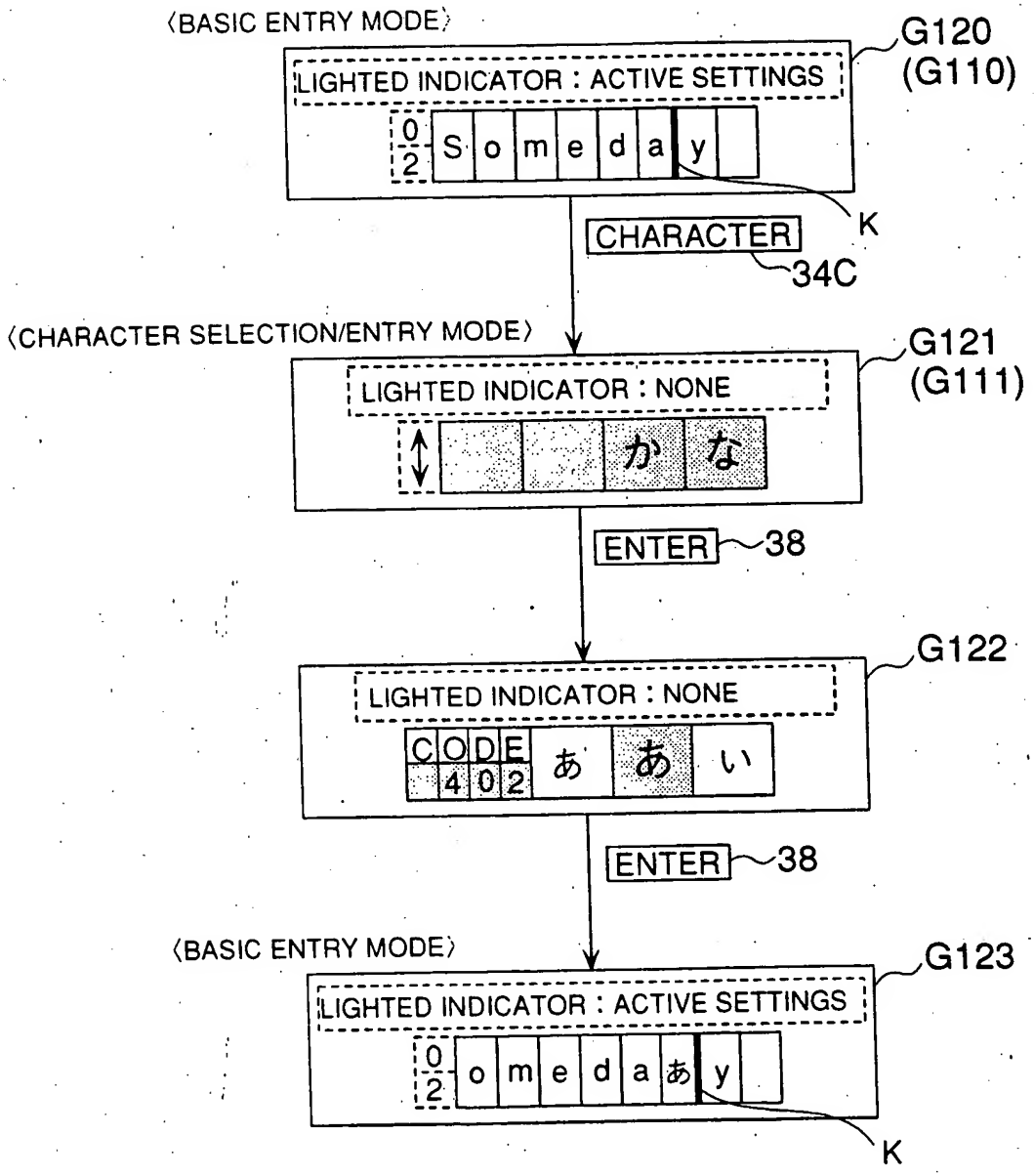

〈BASIC ENTRY MODE〉
LIGHTED INDICATOR : ACTIVE SETTINGS
02
Someday
K
G120
(G110)
CHARACTER
34C
〈CHARACTER SELECTION/ENTRY MODE〉
LIGHTED INDICATOR : NONE
か
な
G121
(G111)
ENTER
38
LIGHTED INDICATOR : NONE
CODE
402
あ
あ
い
G122
ENTER
38
〈BASIC ENTRY MODE〉
LIGHTED INDICATOR : ACTIVE SETTINGS
02
omedaあy
K
G123

FIG. 60A

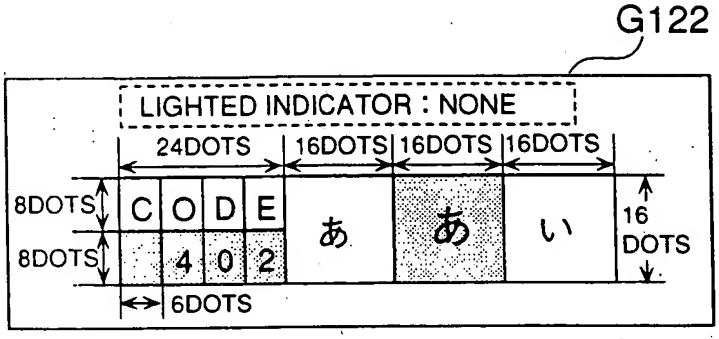


FIG. 60B

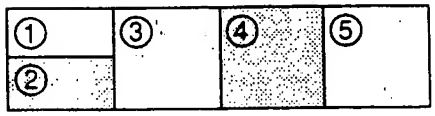


FIG. 60C

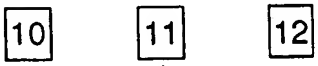


FIG. 61

i \ j	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	ぁ	あ	ぃ	い	ぅ	う	ぇ	え	ぉ	お	—	—	—	—	—
	0401	0402	0403	0404	0405	0406	0407	0408	0409	0410					
2	か	が	き	ぎ	く	ぐ	け	げ	こ	ご	—	—	—	—	—
	0411	0412	0413	0414	0415	0416	0417	0418	0419	0420					
3	さ	ざ	し	じ	す	ず	せ	ぜ	そ	ぞ	—	—	—	—	—
	0421	0422	0423	0424	0425	0426	0427	0428	0429	0430					
4	た	だ	ち	ぢ	っ	つ	づ	て	で	と	ど	—	—	—	—
	0431	0432	0433	0434	0435	0436	0437	0438	0439	0440	0441				
5	な	に	ぬ	ね	の	—	—	—	—	—	—	—	—	—	—
	0442	0443	0444	0445	0446										
6	は	ば	ぱ	ひ	び	ぴ	ふ	ぶ	ぷ	へ	べ	ぺ	ほ	ぼ	ぽ
	0447	0448	0449	0450	0451	0452	0453	0454	0455	0456	0457	0458	0459	0460	0461
7	ま	み	む	め	も	—	—	—	—	—	—	—	—	—	—
	0462	0463	0464	0465	0466										
8	ゃ	や	ゅ	ゆ	ょ	よ	—	—	—	—	—	—	—	—	—
	0467	0468	0469	0470	0471	0472									
9	ら	り	る	れ	ろ	—	—	—	—	—	—	—	—	—	—
	0473	0474	0475	0476	0477										
10	ゎ	わ	ゐ	ゑ	を	ん	—	—	—	—	—	—	—	—	—
	0478	0479	0480	0481	0482	0483									

FIG. 62

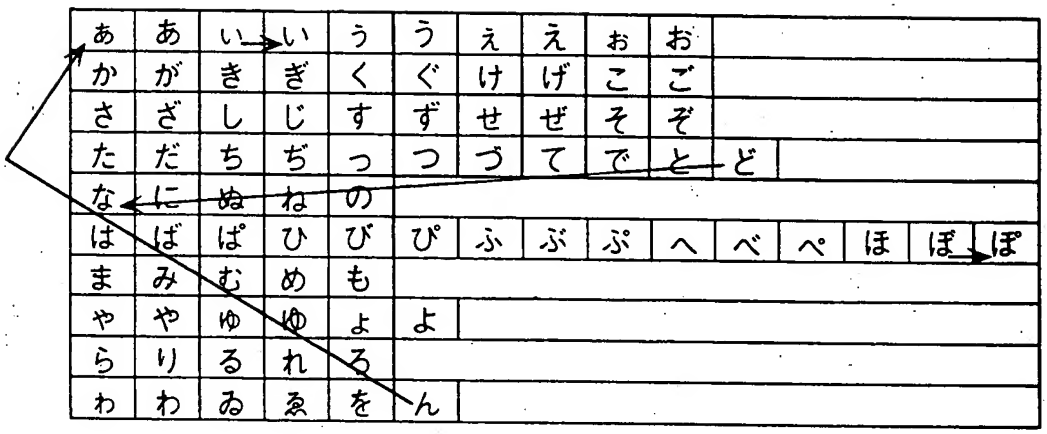

ぁ あ い い う う え え ぉ お
か が き ぎ く ぐ け げ こ ご
さ ざ し じ す ず せ ぜ そ ぞ
た だ ち ぢ っ つ づ て で と ど
な に ぬ ね の
は ば ぱ ひ び ぴ ふ ぶ ぷ へ べ ぺ ほ ぼ ぽ
ま み む め も
ゃ や ゅ ゆ ょ よ
ら り る れ ろ
ゎ わ ゐ ゑ を ん

FIG. 63

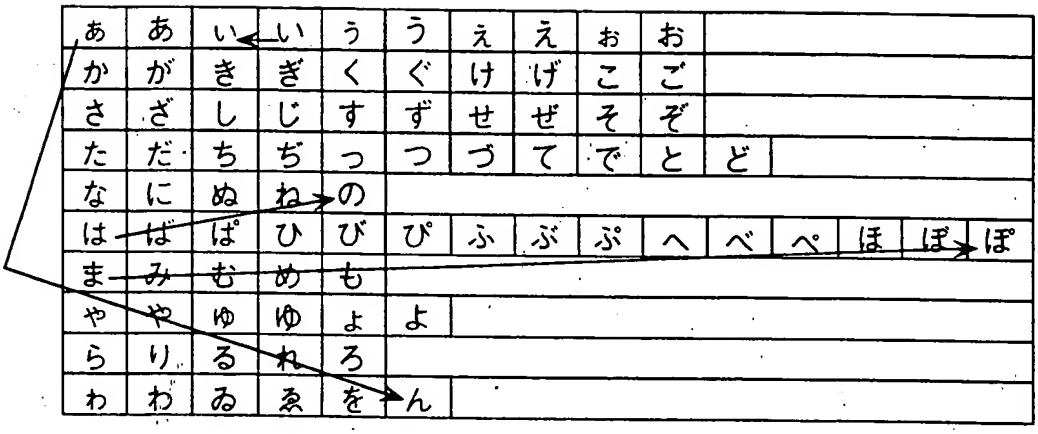

ぁ あ い い う う え え ぉ お
か が き ぎ く ぐ け げ こ ご
さ ざ し じ す ず せ ぜ そ ぞ
た だ ち ぢ っ つ づ て で と ど
な に ぬ ね の
は ば ぱ ひ び ぴ ふ ぶ ぷ へ べ ぺ ほ ぼ ぽ
ま み む め も
や や ゆ ゆ ょ よ
ら り る れ ろ
わ わ ゐ ゑ を ん

FIG. 64

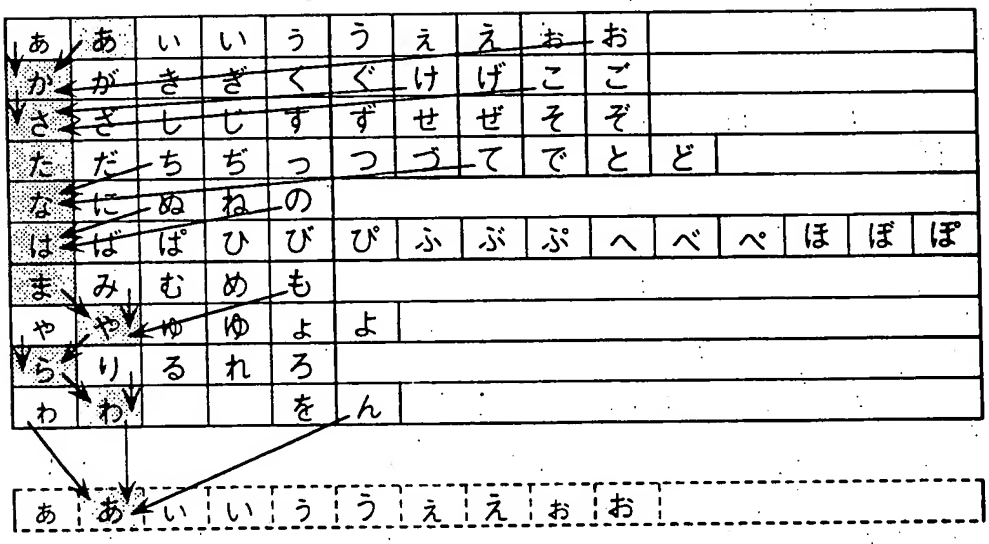

あ あ い い う う え え お お
か が き ぎ く ぐ け げ こ ご
さ ざ し じ す ず せ ぜ そ ぞ
た だ ち ぢ っ つ づ て で と ど
な に ぬ ね の
は ば ぱ ひ び ぴ ふ ぶ ぷ へ べ ぺ ほ ぼ ぽ
ま み む め も
や や ゆ ゆ よ よ
ら り る れ ろ
わ わ を ん
あ あ い い う う え え お お

FIG. 65

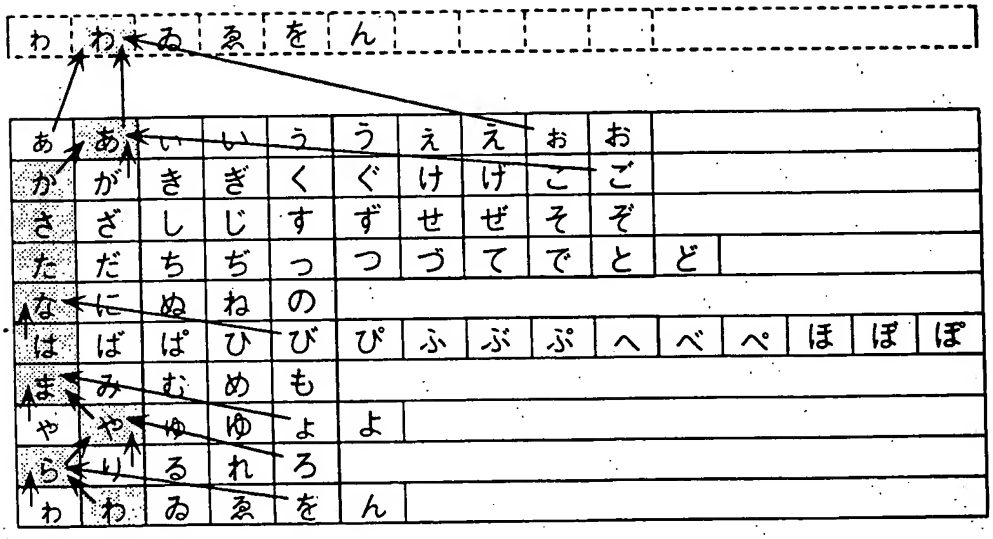

わ わ ゐ ゑ を ん
あ あ い い う う え え お お
か が き ぎ く ぐ け げ こ ご
さ ざ し じ す ず せ ぜ そ ぞ
た だ ち ぢ っ つ づ て で と ど
な に ぬ ね の
は ば ぱ ひ び ぴ ふ ぶ ぷ へ べ ぺ ほ ぼ ぽ
ま み む め も
や や ゆ ゆ よ よ
ら り る れ ろ
わ わ ゐ ゑ を ん

FIG. 66

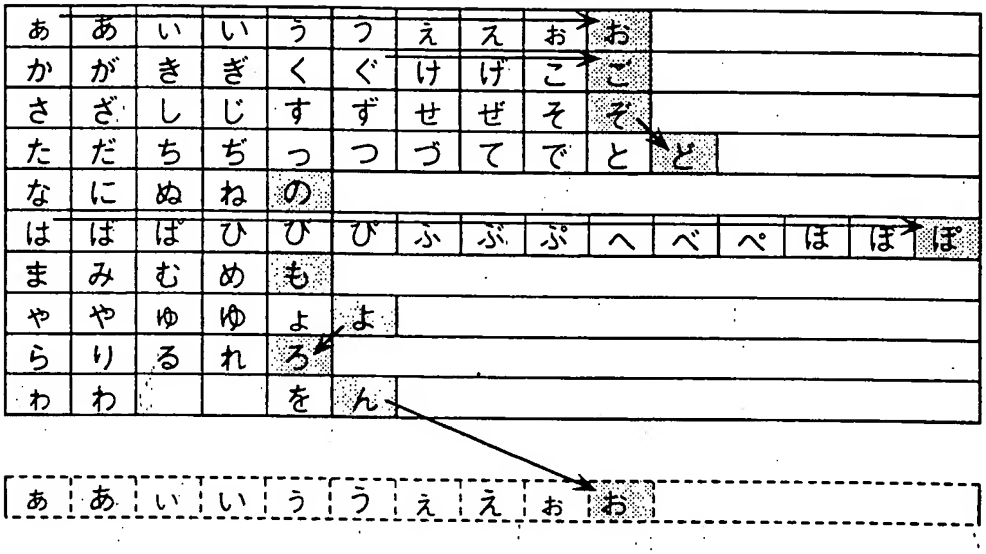

ぁ あ い い う う え え お お
か が き ぎ く ぐ け げ こ こ
さ ざ し じ す ず せ ぜ そ そ
た だ ち ぢ っ つ づ て で と ど
な に ぬ ね の
は ば ぱ ひ び ぴ ふ ぶ ぷ へ べ ぺ ほ ぼ ぽ
ま み む め も
ゃ や ゅ ゆ ょ よ
ら り る れ ろ
ゎ わ を ん
ぁ あ い い う う え え お お

FIG. 67

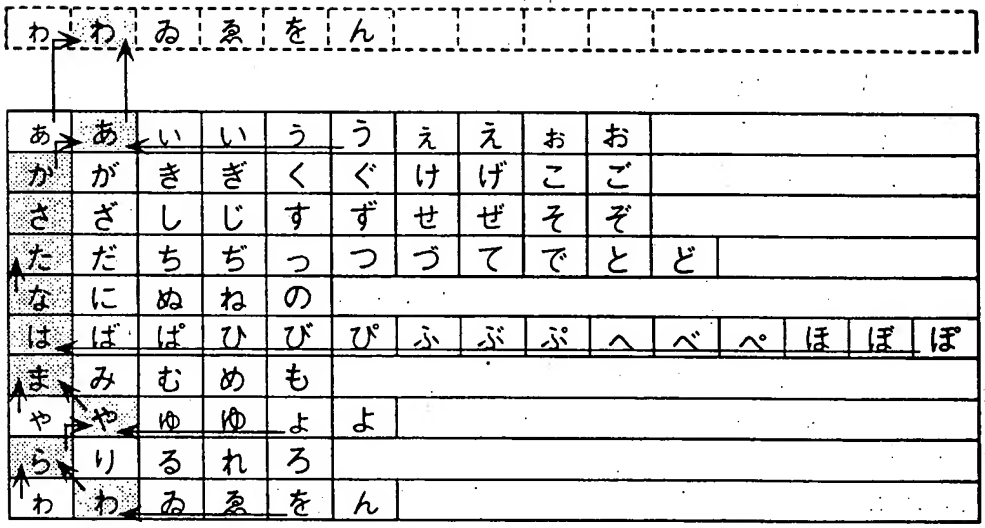

わ わ ゐ ゑ を ん
あ あ い い う う ぇ え ぉ お
か が き ぎ く ぐ け げ こ ご
さ ざ し じ す ず せ ぜ そ ぞ
た だ ち ぢ っ つ づ て で と ど
な に ぬ ね の
は ば ぱ ひ び ぴ ふ ぶ ぷ へ べ ぺ ほ ぼ ぽ
ま み む め も
や や ゆ ゆ ょ よ
ら り る れ ろ
わ わ ゐ ゑ を ん

FIG. 68

i \ j	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	ァ	ア	ィ	イ	ゥ	ウ	ェ	エ	ォ	オ	—	—	—	—	—
	0501	0502	0503	0504	0505	0506	0507	0508	0509	0510					
2	カ	ガ	キ	ギ	ク	グ	ケ	ゲ	コ	ゴ	—	—	—	—	—
	0511	0512	0513	0514	0515	0516	0517	0518	0519	0520					
3	サ	ザ	シ	ジ	ス	ズ	セ	ゼ	ソ	ゾ	—	—	—	—	—
	0521	0522	0523	0524	0525	0526	0527	0528	0529	0530					
4	タ	ダ	チ	ヂ	ッ	ツ	ヅ	テ	デ	ト	ド	—	—	—	—
	0531	0532	0533	0534	0535	0536	0537	0538	0539	0540	0541				
5	ナ	ニ	ヌ	ネ	ノ	—	—	—	—	—	—	—	—	—	—
	0542	0543	0544	0545	0546										
6	ハ	バ	パ	ヒ	ビ	ピ	フ	ブ	プ	ヘ	ベ	ペ	ホ	ボ	ポ
	0547	0548	0549	0550	0551	0552	0553	0554	0555	0556	0557	0558	0559	0560	0561
7	マ	ミ	ム	メ	モ	—	—	—	—	—	—	—	—	—	—
	0562	0563	0564	0565	0566										
8	ャ	ヤ	ュ	ユ	ョ	ヨ	—	—	—	—	—	—	—	—	—
	0567	0568	0569	0570	0571	0572									
9	ラ	リ	ル	レ	ロ	—	—	—	—	—	—	—	—	—	—
	0573	0574	0575	0576	0577										
10	ヮ	ワ	ヰ	ヱ	ヲ	ン	ヴ	ヵ	ヶ	—	—	—	—	—	—
	0578	0579	0580	0581	0582	0583	0584	0585	0586						

FIG. 69

i \ j	1	2	3	4	5	6	7	8	9	10	11	12	13
1	A	B	C	D	E	F	G	H	I	J	K	L	M
	0333	0334	0335	0336	0337	0338	0339	0340	0341	0342	0343	0344	0345
2	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	0346	0347	0348	0349	0350	0351	0352	0353	0354	0355	0356	0357	0358
3	a	b	c	d	e	f	g	h	i	j	k	l	m
	0365	0366	0367	0368	0369	0370	0371	0372	0373	0374	0375	0376	0377
4	n	o	p	q	r	s	t	u	v	w	x	y	z
	0378	0379	0380	0381	0382	0383	0384	0385	0386	0387	0388	0389	0390

FIG. 70

i \ j	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	0
	0317	0318	0319	0320	0321	0322	0323	0324	0325	0316
2	Ⅰ	Ⅱ	Ⅲ	Ⅳ	Ⅴ	Ⅵ	Ⅶ	Ⅷ	Ⅸ	Ⅹ
	10833	10834	10835	10836	10837	10838	10839	10840	10841	10842
3	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
	10843	10844	10845	10846	10847	10848	10849	10850	10851	10852
4	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
	10853	10854	10855	10856	10857	10858	10859	10860	10861	10862

FIG. 71

	1	2	3	4	5	6	7		15		94
1	亜	唖	娃	阿	哀	愛	挨		渥		薩
	1601	1602	1603	1604	1605	1606	1607		1615		1694
2	院	陰	隠	韻	吋	右	宇		丑		応
	1701	1702	1703	1704	1705	1706	1707		1715		1794
68											
	8301	8302	8303	8304	8305	8306	8307		8315		8394
69	堯	槇	遙	瑤	凜	熙	—		—		—
	8401	8402	8403	8404	8405	8406					

FIG. 72

i \ j	1	2	3	4	5	6	7	8	9	10
1	、	。	,	.	・	:	;	?	!	
	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110
2	゛	゜	´	`	¨	~	―	‖	＼	〃
	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120
3	〉	〉	〃	仝	々	〆	○	―	―	-
	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130
4	／	＼	～	∥		…	‥	‘	’	“
	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140
5	”	（	）	〔	〕	［	］	｛	｝	〈
	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150
6	〉	《	》	「	」	『	』	【	】	＋
	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160
7	－	±	×	÷	＝	≠	＜	＞	≦	≧
	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170
8	∞	∴	♂	♀	°	′	″	℃	￥	＄
	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180
9	￠	￡	％	＃	＆	＊	＠	§	☆	★
	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190
10	○	●	◎	◇	—	—	—	—	—	—
	0191	0192	0193	0194						
11	◆	□	■	△	▲	▽	▼	※	〒	→
	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210
12	←	↑	↓	〓	—	—	—	—	—	—
	0211	0212	0213	0214						

FIG. 73

i \ j	1	2	3	4	5	6	7	8	9	10
1	、	。	,	.	・	:	;	?	!	
	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110
2	゛	゜	´	`	¨	~	―	‖	＼	∕
	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120
3	〃	仝	々	〆	〇	―	―	＼	∕	
	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130
4	∕	＼	～	∥	｜	…	‥	‘	’	“
	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140
5	”	（	）	〔	〕	［	］	｛	｝	〈
	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150
6	〉	《	》	「	」	『	』	【	】	＋
	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160
7	－	±	×	÷	＝	≠	＜	＞	≦	≧
	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170
8	∞	∴	♂	♀	°	′	″	℃	￥	＄
	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180
9	￠	￡	％	＃	＆	＊	＠	§		
	0181	0182	0183	0184	0185	0186	0187	0188		
10	☆	★	○	●	◎					
	0189	0190	0191	0192	0193					
11	◇	◆	□	■	△	▲	▽	▼		
	0194	0201	0202	0203	0204	0205	0206	0207		
12	※	〒	→	←	↑	↓	〓			
	0208	0209	0210	0211	0212	0213	0214			

FIG. 74

i \ j	1	2	3	4	5	6	7	8	9	10	11
1	、	。	，	．	・	：	；	？	！	—	
	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110	
2	゛	゜	´	｀	¨	^	￣	＿	ヽ	ヾ	—
	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120	
3	ゝ	ゞ	〃	仝	々	〆	○	―	—	-	—
	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130	
4	／	＼	～	∥	｜	…	‥	‘	’	“	”
	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140	0141
5	（	）	〔	〕	［	］	｛	｝	—	—	—
	0142	0143	0144	0145	0146	0147	0148	0149			
6	〈	〉	《	》	「	」	『	』	【	】	—
	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	
7	＋	－	±	×	÷	＝	≠	＜	＞	≦	≧
	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170
8	∞	∴	♂	♀	°	′	″	℃	￥	$	—
	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180	
9	￠	￡	％	＃	＆	＊	＠	§	—	—	—
	0181	0182	0183	0184	0185	0186	0187	0188			
10	☆	★	○	●	◎	—	—	—	—	—	—
	0189	0190	0191	0192	0193						
11	◇	◆	□	■	△	▲	▽	▼	—	—	—
	0194	0201	0202	0203	0204	0205	0206	0207			
12	※	〒	→	←	↑	↓	〓	—	—	—	—
	0208	0209	0210	0211	0212	0213	0214				

FIG. 75

DISPLAY ORDER	TITLE OF SYMBOL GROUP				DISPLAY ORDER	TITLE OF SYMBOL GROUP			
1	01	音	楽		14	14	星	座	
2	02	ビ	デ	オ	15	15	自	然	
3	03	あ	そ	び	16	16	乗	り	物
4	04	記	述		17	17	食	べ	物
5	05	省	略		18	18	暮	ら	し
6	06	カ	ッ	コ	19	19	家	族	
7	07	数	字		20	20	仕	事	
8	08	矢	印		21	21	ギ	リ	ャ
9	09	図	形		22	22	欧	州	大
10	10	学	術		23	23	欧	州	小
11	11	丸	付	き	24	24	発	音	
12	12	単	位		25	25	野	線	
13	13	生	き	物					

FIG. 76

TITLE OF SYMBOL GROUP	JAPANESE GRAPHIC CHARACTER CODE FOR MD	SHIFT JIS	NAME	
01 音楽 (MUSIC)	00286	81F4	SINGLE NOTE	♪
	10922	F755	DOUBLE NOTE	♫
	10923	F756	G CLEF	𝄞
	10924	F757	F CLEF	𝄢
	00284	81F2	SHARP	#
	00285	81F3	FLAT	b
	10925	F758	REST	𝄽
	10926	F759	NATURAL	♮
	10927	F75A	MINOR CODE	m
	10928	F75B	MAJOR CODE	maj
	10929	F75C	SUS CODE	sus
	10930	F75D	AUGMENT	aug
	10931	F75E	DIMINISH	dim
	10932	F75F	ADD CODE	add
	12121	FAB3	DOUBLE NOTE・SLANTED	
	12122	FAB4	SINGER	
	12123	FAB5	STAND BEFORE MICROPHONE	
	11041	F7C7	EMOTION・SING(MICROPHONE)	
	12124	FAB6	TRUMPET	
	12125	FAB6	GUITAR	
	12126	FAB8	KEYBOARD	

FIG. 77

TITLE OF SYMBOL GROUP	JAPANESE GRAPHIC CHARACTER CODE FOR MD	SHIFT JIS	NAME	
04 記述 (DESCRIPTION)	00102	8141	PUNTUATION	、
	00103	8142	FULLSTOP	。
	00104	8143	COMMA	,
	00105	8144	PERIOD	.
	00106	8145	MIDPOINT	・
	00107	8146	COLON	:
	00108	8147	SEMICOLON	;
	00109	8148	QUESTION MARK	?
	00110	8149	EXCLAMATION MARK	!
	00111	814A	VOICED SOUND MARK	゛
	00112	814B	SEMIVOICED SOUND MARK	゜
	00113	814C	ACUTE ACCENT	´
	00114	814D	GRAVE ACCENT	`
	00115	814E	DIAERESIS	¨
	00116	814F	CIRCUMFLEX ACCENT	^
	00117	8150	OVER LINE	￣
	00118	8151	UNDER LINE	＿
	00119	8152	KATAKANA REPEAT	ヽ
	00120	8153	KATAKANA VOICED SOUND REPEAT	ヾ
	00121	8154	HIRAGANA REPEAT	ゝ
	00122	8155	HIRAGANA VOICED SOUND REPEAT	ゞ
	00123	8156	DITTO MARK	〃
	00124	8157	SAME-AS-ABOVE MARK	仝
	00125	8158	REPEAT	々
	00126	8159	CLOSE SIGN	〆
	00128	815B	EN DASH	–
	00129	815C	EM DASH	—
	00130	815D	HYPHEN	-
	00131	815E	SLASH	／
	00132	815F	BACK SLASH	＼
	00133	8160	SWUNG DASH	～
	00136	8163	3 POINT LEADER	…
	00137	8164	2 POINT LEADER	‥
	00188	8198	SECTION MARK	§
	00287	81F5	DAGGER	†
	00288	81F6	DOUBLE DAGGER	‡
	00289	81F7	PARAGRAPH SIGN	¶
	10702	F641	INVERTED EXCLAMATION MARK	¡
	10732	F65F	INVERTED QUESTION MARK	¿

FIG. 78

TITLE OF SYMBOL GROUP	JAPANESE GRAPHIC CHARACTER CODE FOR MD	SHIFT JIS	NAME	
05 省略 (OMISSION)	00119	8152	KATAKANA REPEAT	ヽ
	00120	8153	KATAKANA VOICED SOUND REPEAT	ヾ
	00121	8154	HIRAGANA REPEAT	ゝ
	00122	8155	HIRAGANA VOICED SOUND REPEAT	ゞ
	00123	8156	DITTO MARK	〃
	00124	8157	SAME-AS-ABOVE MARK	仝
	00125	8158	REPEAT	々
	00126	8159	CLOSE SIGN	〆
	00128	815B	EN DASH	―
	00136	8163	3 POINT LEADER	…
	00137	8164	2 POINT LEADER	‥
	00184	8194	NUMBER	#
	00185	8195	AMPERSAND	&
	10910	F749	SUPERSCRIPT TRADE MARK	TM
	10911	F74A	SUPERSCRIPT SHARP	♯
	10912	F74B	SUPERSCRIPT FLAT	♭
	10933	F760	HOT SPRING MARK	♨
	10934	F761	SHRINE MARK	⛩
	10935	F762	TEMPLE MARK	卍
	10936	F763	POSTAL MARK	〒
	10937	F764	TELEPHONE MARK	☎
	10938	F765	FACSIMILE	FAX
	11010	F7A8	COPY	COPY
	11011	F7A9	KEEP	KEEP
	11012	F7AA	MASTER	MST